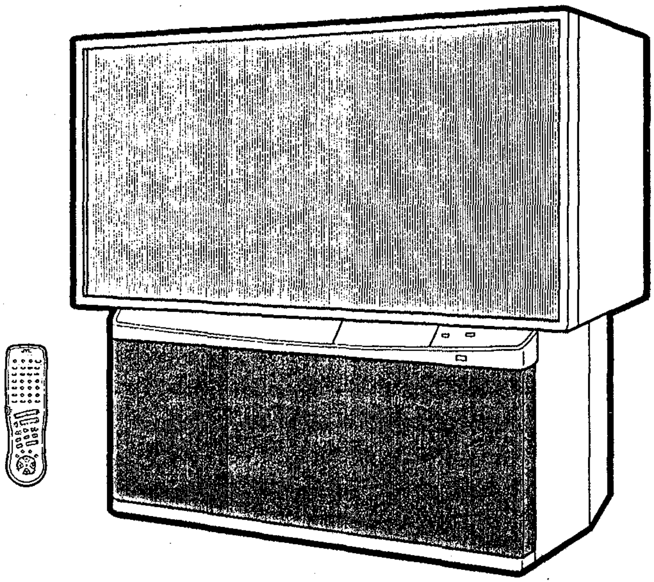
JVC

SERVICE MANUAL

WIDE SCREEN PROJECTION TELEVISION

NV-55BX6 [US & CA]
NV-55BH6 [US]

BASIC CHASSIS
PA



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No.50988
July 1995

SPECIFICATIONS

Item	Content
External dimensions (W×H×D)	126.8cm×133.2cm×70.0cm [50"×52-3/4×27-5/8"]
Weight	109kg [239.8lbs] **[BX6]** 107kg [235.4lbs] **[BH6]**
Reception format	NTSC, BTSC (multi-channel sound)
Reception range	VHF 2 to 13, UHF 14 to 69 ; Sub Mid, Mid, Super, Hyper and Ultra bands (180-channel frequency synthesizer system)
Power source	120V AC, 60 Hz
Power consumption	Max. 280W, Avg. 235W [3.5A] **[BX6]** Max. 225W, Avg. 186W **[BH6]**
Projection tube	Three 17cm [6.7inch] tubes
Screen	Transparent screen
Screen size	140cm [55-inch], aspect ratio of 16:9, 121.8cm (W) ×68.5cm (H) =140cm (diagonal) [48" (W) ×27" (H) =55"(diagonal)]
Audio output	Front : 10W+10W+10W (L+R+C) **[BX6]** 10W+10W (L+R) **[BH6]** Rear : 10W+10W (With 8-ohms connected) **[BX6 only]**
Speakers	Round 16cm [6.3"] speaker×2 (Front) Round 12cm [4.7"] speaker×1 (Center) **[BX6 only]**
Antenna terminal	75-ohms (VHF / UHF) input terminal (F-type connector) ×2 SPLIT OUT terminal (F-type connector) ×1
External input jacks (INPUT 1 / 2 / 3)	S-VIDEO (except INPUT3) : Y / 1Vp-p Positive, 75-ohms (negative sync provided) C / 0.286Vp-p (burst signal), 75-ohms VIDEO : 1Vp-p, 75-ohms AUDIO : 500mVrms (-4dBs), high impedance
Variable audio output jacks	More than 0 to 1550mVrms (+6dBs), low impedance (400Hz when modulated 100%)
Line output jacks	Video : 1Vp-p, 75-ohms Audio : 500mVrms (-4dBs), low impedance (400Hz when modulated 100%)
AV COMPU LINK jacks	3.5mm φ mini jack ×2 [RECEIVER/AMP, VCR ONLY]
AUDIO OUT jack (for Cordless headphone)	3.5mm φ stereo mini jack [PIP / MAIN / SURROUND] **[BX6]** 3.5mm φ stereo mini jack [PIP / MAIN] **[BH6]**
Speaker output jacks	Impedance 6 to 8 ohms [FRONT / REAR] **[BX6]**
Speaker input jacks	Impedance 16 ohms, Max. 20W [CENTER CHANNEL] **[BH6]**
Accessories	Remote control unit (RM-C726 **[BH6]** / RM-C727 **[BX6]**)×1 AA-size dry cell battery ×2

Design & specification subject to change without notice.

NV-55BX6 OPERATING INSTRUCTIONS

JVC

NV-55BX6

WIDE SCREEN PROJECTION TELEVISION

INSTRUCTIONS

Thank you for purchasing this JVC wide screen projection television.
To ensure your complete understanding, please read this manual thoroughly before operation.

- **Safety Precautions** on page 2 & 3
- **Service Information** (U. S. A only) on page 47
- **Limited warranty** (U. S. A only) on back cover

PREPARATION (page 8)
1. Connecting Antenna and Power cord
2. Inserting Batteries into your Remote Control
3. Turning the Power ON/OFF
4. Allocating Stations to Channels
5. Auto Demonstration Mode

BASIC OPERATING PROCEDURE (page 11)
Watching a Television Program
Changing the Picture's Aspect Ratio
Two-picture Screen
MENU selection

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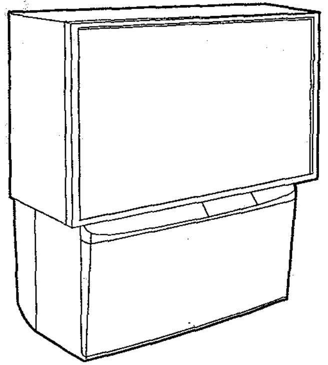


DOLBY SURROUND
PRO • LOGIC

For Customer Use:
Enter below the Model No. and Serial No. which are located on the rear of the cabinet. Retain this information for future reference.

Model No. NV-55BX6

Serial No.

FOR CANADA, SEE THE SEPARATE SHEETS FOR WARRANTY/GUARANTIE AND JVC AUTHORIZED SERVICE CENTERS IN CANADA.

LIMITED WARRANTY

JVC
WIDE SCREEN PROJECTION TV

COLOR TV 1-1-2
JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period as shown below.

1. Parts. The lenticular (front) screen is warranted against defects in materials and workmanship for a period of 60 days. Picture tubes are covered for 2 years. All other parts are warranted for a period of 1 year.

2. Labor. For 60 days after the original purchase at retail, JVC will repair or replace, at our option, the lenticular (front) screen if it proves defective. For all other parts JVC will provide the labor for a warranty repair for 1 year.

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:
If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:
Return your products to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 537-5722.
If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

WHAT IS NOT COVERED:
This limited warranty provided by JVC does not cover:
1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation and installation and removal for repair;
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase).

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTIAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

BT-52001-1

JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.

41 Slater Drive
Elmwood Park, New Jersey 07407

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

JVC

JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.
41 Slater Drive. Elmwood Park, N.J. 07407

JVC CANADA INC.
21 Finchdene Square, Scarborough Ontario MIX 1A7

NV-55BX6-IBA-A Ⓐ1
0795-NK-AB

SAFETY PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:
To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

Caution:
Changes or modifications not approved by JVC could void the warranty.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Caution:
When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.

IMPORTANT SAFEGUARDS

CAUTION: Please read and retain for your safety.

This TV set has been engineered and manufactured to assure your personal safety. But *improper use can result in potential electrical shock or fire hazard.* In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing, and follow all warnings and instructions marked on the set.

INSTALLATION

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other).

(POLARIZED-TYPE)

This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug.
Should it still fail to fit, contact your electrician.

2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.

3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

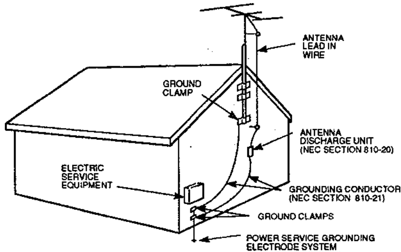
4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.

5 Do not use this TV set near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.

6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit and connection requirements for the grounding electrode.

7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC — NATIONAL ELECTRICAL CODE

8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released. Therefore:
- Never block the bottom ventilation slots of a TV set by placing it on a bed, sofa, rug, etc.
- Never place a TV set in a "built-in" enclosure unless proper ventilation is provided.
- Never cover the openings with a cloth or other material.
- Never place the TV set near or over a radiator or heat register.

9 To avoid personal injury:
- Do not place a TV set on a sloping shelf unless properly secured.
- Use only a cart or stand recommended by the TV set manufacturer.
- Do not try to roll a cart with small casters across thresholds or deep pile carpets.
- Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

USE

10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.

11 Unplug the TV set from the wall outlet before cleaning. Use a slightly damp (not wet) cloth. Do not use liquid or an aerosol cleaner.

12 Never connect an accessory to your TV that has not been specifically designed for the purpose for which you intend to use it. Improper connections can cause fire hazards.

13 For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.

14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.

SERVICE

15 Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
A. When the power cord or plug is damaged or frayed.
B. If liquid has been spilled into the TV set.
C. If the TV set has been exposed to rain or water.
D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
E. If the TV set has been dropped or damaged in any way.
F. When the TV set exhibits a distinct change in performance — this indicates a need for service.

16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.

18 Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.

19 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

20 Note to CATV system installer.
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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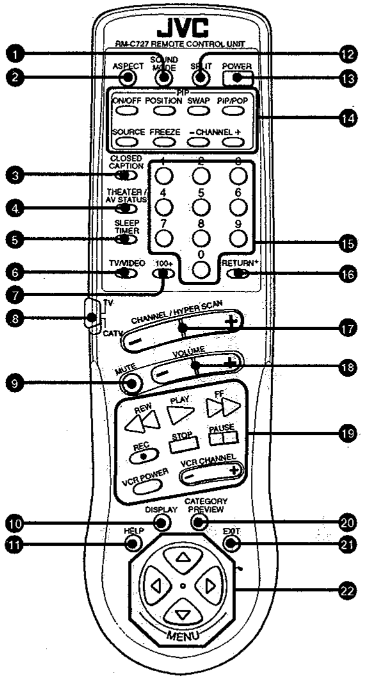
** FOR PRODUCTS PURCHASED IN CANADA SEE SEPARATE SHEETS FOR WARRANTY / GARANTIE AND JVC AUTHORIZED SERVICE CENTERS IN CANADA.

For Optimum Viewing
Sit directly in front of the TV to watch it. The middle of the screen should be at your eye level. Partially darkening the room improves contrast and picture sharpness.

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent 1,037,877. "Dolby" and the double-D symbol ◫ are trademarks of Dolby Laboratories Licensing Corporation.

Location of Remote Control Buttons



JVC
RM-C727 REMOTE CONTROL UNIT
ASPECT
SOUND MODE
SPLIT
POWER
PIP
ON/OFF
POSITION
SWAP
PIP/POP
SOURCE
FREEZE
- CHANNEL +
CLOSED CAPTION
THEATER/ AV STATUS
SLEEP TIMER
TV/VIDEO
100+
RETURN+
1
2
3
4
5
6
7
8
9
0
TV
CATV
CHANNEL / HYPER SCAN
MUTE
VOLUME
REW
PLAY
FF
REC
STOP
PAUSE
VCR POWER
VCR CHANNEL
DISPLAY
CATEGORY PREVIEW
HELP
EXIT
MENU
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
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⑳
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① SOUND MODE button	p.21, 22
② ASPECT button	p.12
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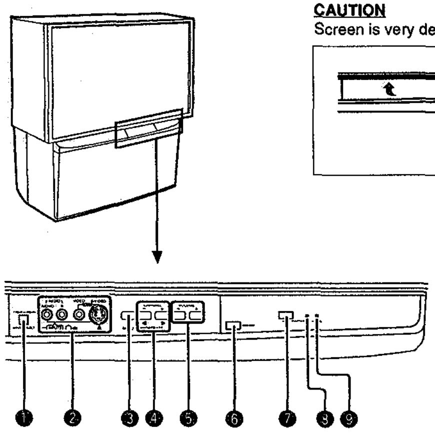
⑲ VCR operation buttons	p.40
⑳ CATEGORY PREVIEW button	p.25
㉑ EXIT button	p.16
㉒ MENU (▼▲◀▶) buttons	p.16

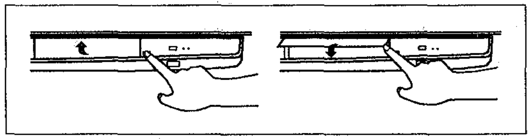
- For the locations of TV buttons and parts, please refer to page 6.

Location of TV buttons and parts

FRONT PANEL



CAUTION
Screen is very delicate. Please handle carefully.



❶ INPUT 3 SELECT switch	p.38
❷ INPUT 3 jacks	p.38
❸ MENU (▼) button	p.6
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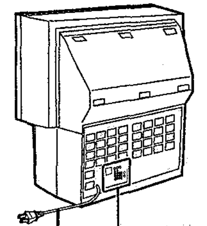
❾ ON TIMER lamp	p.30, 31

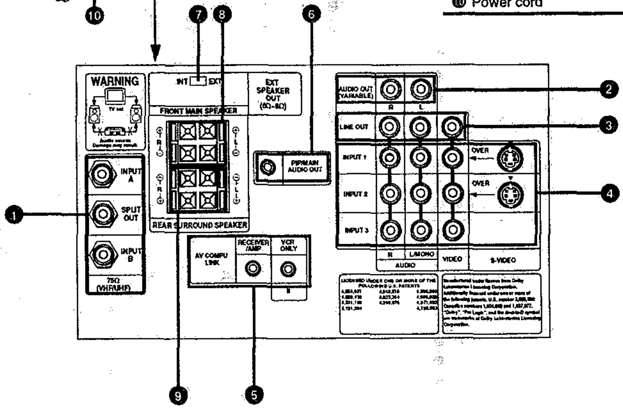
Using the TV Buttons on the console

POWER button: The power turns on or off each time the button is pressed.
VOLUME (–/+) buttons: Adjust the volume.
OPERATE (◀ ▶)/CHANNEL (–/+) buttons: Select the programmed channel. Change the setting of a function selected with the Menu ▼ button.
MENU ▼ button: Displays function lists. While the list is displayed, press the button repeatedly until you get the function you want to adjust.

Notes:
- The front panel does not have a MENU ▲ button or EXIT button.
  To select menu functions, use the MENU ▼ button. To release MENU mode, use the VOLUME (–/+) buttons.
- You cannot set SET LOCK CODE, CHILD TIMER, or channel guard from the front panel.
- When you activate MENU mode from the front panel, the first page of the FRONT PANEL CONTROL menu is displayed. Other pages are the same as those displayed when operating the remote control (refer to page 16).

REAR PANEL




❶
❷
❸
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❺
❻
❼
❽
❾
WARNING
INT
EXT
FRONT MAIN SPEAKER
REAR SURROUND SPEAKER
EXT SPEAKER OUT
INPUT A
SPLIT OUT
INPUT B
75Ω (VHF/UHF)
PIP/MAIN AUDIO OUT
AV COMPU LINK
RECEIVER /AMP
VCR ONLY
AUDIO OUT (VARIABLE)
LINE OUT
INPUT 1
INPUT 2
INPUT 3
OVER
R
L/MONO
AUDIO
VIDEO
S-VIDEO

❶ Antenna INPUT A, INPUT B, SPLIT OUT	p.8
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❹ INPUT 1 to 3 jacks	p.38
❺ AV COMPU LINK jacks	p.42
❻ PIP/MAIN AUDIO OUT jack	p.38
❼ Speaker switch	p.39
❽ FRONT MAIN SPEAKER jacks	p.38
❾ REAR SURROUND SPEAKER jacks	p.38
❿ Power cord	p.8

Notes (also see "CONNECTION" on pages 38 to 43):

AUDIO OUT (VARIABLE) jacks:
Output the sound of the picture on the TV.
- The volume can be adjusted using the TV's VOLUME buttons.

LINE OUT jacks:
Output the sound and picture from the TV.
- Video and sound input to INPUT 1 are not output.
- Video that is input to the S-VIDEO jack is not output.
- When connecting any INPUT and LINE OUT jacks to the same VCR, use the INPUT 1 jack. If you use another INPUT jack, the picture will be distorted unless you play the VCR.

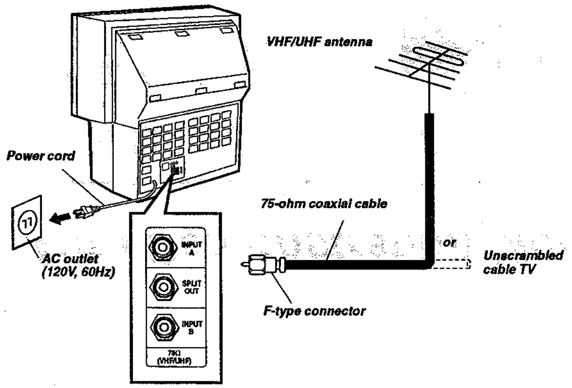
INPUT 1, 2, 3 jacks:
- Connect monaural audio to the L/MONO jack.
- When you are using a VIDEO jack, do not use its corresponding S-VIDEO jack.
- If a JVC video movie camera was used to record a video in squeeze mode, connect an S-VIDEO cable to play it back. The picture is shown in full mode automatically.

Antenna terminal text: See page 8.

Speaker terminal text: See page 38.

1. Connecting Antenna and Power cord

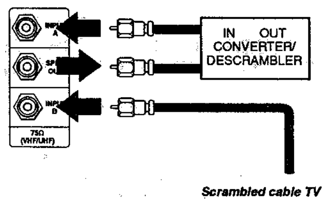
(Example)


VHF/UHF antenna
Power cord
75-ohm coaxial cable
or
Unscrambled cable TV
AC outlet (120V, 60Hz)
INPUT A
SPLIT OUT
INPUT B
75Ω (VHF/UHF)
F-type connector

Notes:
- The power cord has a polarized plug. Therefore, it will only insert one way into the wall outlet. DO NOT DEFEAT THE POLARIZED PLUG. If you have problems, consult your local dealer.
- When the power cord is connected to an AC outlet, the POWER lamp turns red.
- After connecting to antenna or cable TV, use AUTO TUNER SETUP to program available channels.

Converter or Descrambler Connections

(Example)


IN OUT
CONVERTER/
DESCRAMBLER
75Ω (VHF/UHF)
Scrambled cable TV

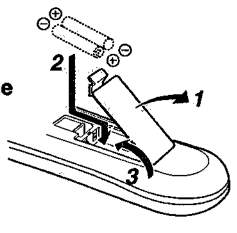
Notes:
- Some cable companies require a converter box to receive all available programs. Others may require it only for subscription or "premium" programming. Consult your local cable company for correct installation.
- The signal input to the INPUT B antenna terminal will be output as is to the SPLIT OUT antenna terminal.
- Use manual programming to set the channels for INPUT B.

2. Inserting Batteries Into Your Remote Control

1 **Raise the latch and remove the cover.**

2 **Insert two batteries into the battery compartment.**

3 **Replace the cover.**



Condition:
- Use two AAA/R03 batteries.

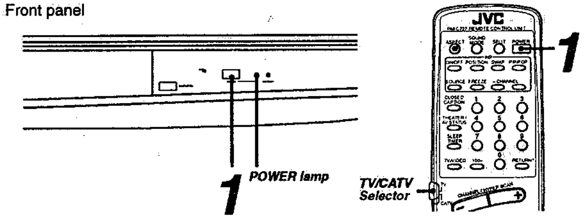
Caution:
- Follow the cautions printed on the batteries.

Notes:
- Battery life is approximately six months to one year depending on frequency of use.
- If the remote control operates erratically, replace the batteries.
- Insert batteries correctly, observing + and – polarities.

If a manufacturer's VCR or CATV converter code has been set:
The set manufacturer's code will be put in memory for a specific time. When you replace the batteries, do so within one minute. If the manufacturer's code is lost, set it again (refer to page 40).

3. Turning the Power ON/OFF

Front panel


1
POWER lamp
TV/CATV Selector
JVC
1

1 **Press POWER.**

POWER

POWER

The POWER lamp lights up.

Condition:
- When using the remote control, set the TV/CATV selector to TV.

- To turn off the TV, press POWER again.
  The POWER lamp goes off.

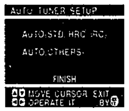
4. Allocating Stations to Channels

— AUTO TUNER SETUP

Allocate stations to channels using AUTO TUNER SETUP.

1 Press MENU ▼ or ▲ repeatedly to select AUTO TUNER SETUP, then press ◀ or ▶ to enter the setup menu.

The AUTO TUNER SETUP menu is displayed.



2 Press MENU ▼ or ▲ to move the cursor to AUTO (STD, HRC, IRC) or AUTO (OTHERS), then press ◀ or ▶ to select it.

Setup starts automatically.

- ●This completes the procedure.
  PROGRAMMING OVER is displayed when setup is complete.

AUTO (STD, HRC, IRC):
Almost all the cable companies use one of the following systems:
- Standard.
- Harmonically Related Carrier.
- Incrementally Related Carrier.

AUTO (OTHERS):
For those other than the above.

Notes:
- If you experience a problem, call your cable company. If they use a different system (not STD, HRC, IRC), repeat step 1 and in step 2 select AUTO (OTHERS).
- For details on menu functions, refer to page 16.
- Press CHANNEL/HYPER SCAN (–/+) to see which channels were set.
- To add a channel to or delete a channel from the AUTO TUNER SETUP, refer to "To set a channel to be scanned" on page 26.

5. Auto Demonstration Mode

— AUTO DEMO

You can view a demonstration of many of this TV's functions. Using auto demonstration mode before operating the TV will make it easier to understand.

1 Press MENU ▼ or ▲ repeatedly to select AUTO DEMO, then press ◀ or ▶.

The demonstration starts.

SUPER COMMAND
JVC
FEATURE
DEMONSTRATION

- ●To stop the demonstration, press any button.

Note:
- This demonstration mode repeats about every six minutes.

Watching a Television Program

—TV/VIDEO, TUNER MODE

1 Press POWER.

POWER *The POWER lamp lights up.*

2 If video mode (VIDEO-1, 2, 3) has been selected, press TV/VIDEO repeatedly to switch it to AIR (or CABLE).

TV/VIDEO →TV mode → VIDEO-1 → VIDEO-2 → VIDEO-3

3 Press MENU ▼ or ▲ repeatedly to select the ANTENNA, then press ◀ or ▶ to select INPUT A or INPUT B.

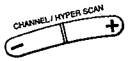
INPUT A ⇆ INPUT B

4 If necessary, press MENU ▼ or ▲ repeatedly to select TUNER MODE, then press ◀ or ▶ to select AIR or CABLE.

AIR ⇆ CABLE

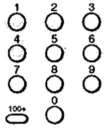
5 Select a channel.

Scan selection



1. Press CHANNEL/HYPER SCAN (–/+).
   + : to scan UP a channel number.
   – : to scan DOWN a channel number.

Direct selection



1. Press a number buttons.
   Example: To select channel 5 (single-digit channel), press 0, and 5.
   Example: To select channel 35 (two-digit channel), press 3, and 5.
   Example: To select channel 115 (three-digit channel), press 100+, 1, and 5.

6 Press VOLUME (–/+).

The level indicator appears.

+ : The bars move right and the volume increases.
– : The bars move left and the volume decreases.

7 Press POWER to turn the power off.

POWER *The POWER lamp goes off.*

TV mode:
CABLE is displayed if you turned off the TV after watching a cable TV broadcast.

Channel display:
The channel number is displayed in light blue for AIR, and in yellow for CABLE.

Note:
- TUNER MODE (AIR or CABLE) is automatically selected during AUTO TUNER SETUP.

CHANNEL/HYPER SCAN (–/+) BUTTON:
The CHANNEL/HYPER SCAN (–/+) button is a two stage button.
Its function changes depending on how long you press it.

NORMAL SCAN UP/DOWN:
Each time you press the button lightly (1st stage), the preset stations are scanned one at a time.

HYPER SCAN UP/DOWN:
When you press the button strongly (2nd stage), stations are scanned rapidly. Only stations allocated to channel numbers are scanned. A station is selected when you release the button.

Notes:
- Only preset channels can be selected with scan selection (refer to page 9).
- The button on the front panel allows NORMAL SCAN UP/DOWN only.

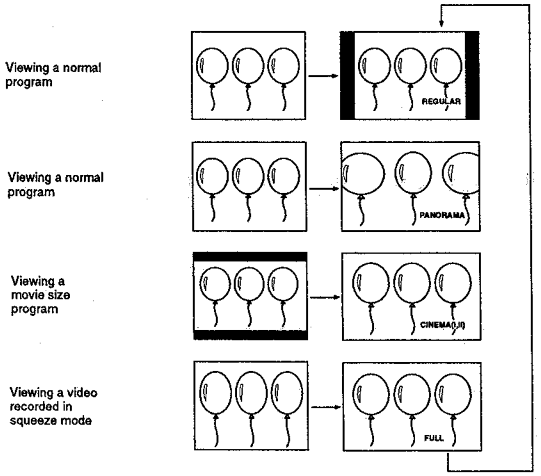
Note:
- You can also use VOLUME (–/+) on the front panel.

Changing the Picture's Aspect Ratio

—ASPECT

You can watch programs with the usual TV picture ratio of 4:3, and 16:9 movie size programs.

1. Press ASPECT repeatedly to change the aspect ratio.


Viewing a normal program
REGULAR
Viewing a normal program
PANORAMA
Viewing a movie size program
CINEMA(I,II)
Viewing a video recorded in squeeze mode
FULL

Note:
- When a video disc player, video movie camera, and other equipment are connected by S-VIDEO cable, the aspect ratio may change automatically when you start playback. Change the aspect ratio manually if necessary.

Note:
- The sides of the picture are slightly stretched.

Note:
- If the subtitles are difficult to read, raise the picture (see page 13).

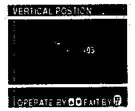
Notes:
- When viewing a video recorded in squeeze mode by a JVC video movie camera, the picture is shown in FULL mode automatically if you use S-VIDEO cable.
- For normal programs, the picture is slightly stretched.

Raising the picture in CINEMA I or CINEMA II —VERTICAL POSITION

In CINEMA I or CINEMA II mode, if subtitles are not visible, you can raise the picture.

Condition:
- Set the Aspect Ratio to CINEMA I or CINEMA II.

1. Press MENU ▼ or ▲ repeatedly to scroll to VERTICAL POSITION, then press ◀ or ▶ to select it.

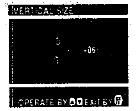

VERTICAL POSITION
OPERATE BY EXIT BY

2. Press MENU ▼ or ▲ to adjust the vertical position.

●This completes the procedure.
To leave the menu, press EXIT.

—VERTICAL SIZE

1. Press MENU ▼ or ▲ repeatedly to scroll to VERTICAL SIZE, then press ◀ or ▶ to select it.


VERTICAL SIZE
OPERATE BY EXIT BY

2. Press MENU ▼ or ▲ to adjust the vertical size.

●This completes the procedure.
To leave the menu, press EXIT.

Two-picture Screen

—SPLIT, PIP or POP

Two screens (one large and one small) can be displayed at the same time. While viewing playback from a VCR, you can also watch TV.

Conditions:
- Connect the playback device (for example, VCR) (refer to page 38).
- You can only listen to the sound of the PIP picture by using cordless headphones (not supplied) (refer to page 38).

PIP:
Picture In Picture

POP:
Picture Outside Picture

Notes:
- Two programs in different broadcast modes (CHANNEL, CABLE A, CABLE B) cannot be viewed simultaneously.
- If there is no picture in the MAIN picture frame, a PIP or POP picture will not appear.

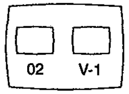
See two pictures from different sources side by side on the screen

— SPLIT

This function is like the PIP function, except the two pictures are displayed next to each other and are the same size.

1. Press SPLIT.

The screen displays two pictures, each one-fourth of normal size.



2. To return to the original screen, press SPLIT again.

To display the PIP or POP picture

— ON/OFF

1. Press ON/OFF.

The PIP or POP picture appears.

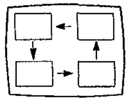
2. To remove the PIP or POP picture, press ON/OFF again.

The PIP or POP picture disappears.

To change the position of the PIP or POP picture

— POSITION

1. Each time you press POSITION, the PIP or POP picture changes position.



To swap the MAIN picture and the PIP or POP picture

— SWAP

1. Press SWAP.

The MAIN picture and PIP or POP picture swap places.

To switch the PIP or POP picture input

—SOURCE

1. Press SOURCE repeatedly to select the desired input.

→TV mode→VIDEO-1→VIDEO-2→VIDEO-3

TV mode:
When watching TV, the channel number is displayed on the screen.

To freeze the PIP or POP picture

— FREEZE

1. Press FREEZE.

The PIP or POP picture pauses.

- To restore the regular picture, press FREEZE again.

Notes:
- If FREEZE is pressed while there is no PIP or POP picture, the PIP or POP picture will appear and then pause.
- If the PIP or POP picture is paused, pressing SWAP, SOURCE, or SIZE unfreezes it.

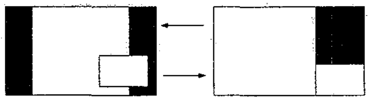
Selecting PIP or POP

— PIP / POP button

Condition:
- Set the Aspect Ratio to REGULAR (see page 12).

1. Press PIP / POP.

The small picture changes position.



MENU selection

—MENU, HELP, EXIT

Most television functions can be operated from the remote controller.
When using menus, you can view screens explaining each function.

1. Press MENU ▼ or ▲.

A list of functions is displayed.

Note:
- From here on, "MENU" will be omitted from ▼ ▲ ◀ ▶ button names.

2. Press ▼ or ▲ repeatedly to select the function you want.

The function you have selected is displayed in yellow.

3. Press ◀ or ▶ to enter the setting screen.

The setting screen of the selected function is displayed.

Note:
- To cancel the operation, press EXIT.

4. Following the on-screen instructions, use ▼ and ▲ to move the cursor and ◀ or ▶ to make settings.

●When you complete this procedure, press EXIT to leave the menu screen.

Viewing explanations of functions

—HELP

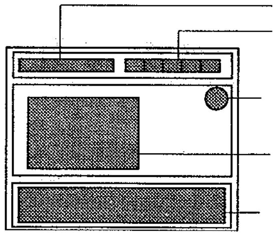
1. Press HELP during menu operations.

The screen shows an explanation of the currently selected function or tells you how to make settings.

Note:
- If you press HELP before making settings (when the function name is displayed in yellow), the help screen explains the function. If you press HELP while making settings, the screen tells you how to make settings.

2. To return to the original screen, press HELP again.

MENU Screens



Shows group titles

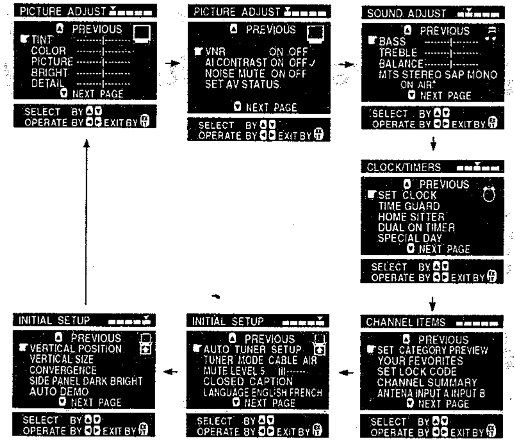
A different color is used to indicate the currently selected group.
Title characters and icon are displayed in the same color.

Shows the group icon for each title.

Shows function names. The selected function is displayed in yellow.

Gives help. Read this as you make your settings.

MENU Screen List


PICTURE ADJUST
PREVIOUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
PICTURE ADJUST
PREVIOUS
VNR ON OFF
AI CONTRAST ON OFF ✓
NOISE MUTE ON OFF
SET AV STATUS
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
SOUND ADJUST
PREVIOUS
BASS
TREBLE
BALANCE
MTS STEREO SAP MONO
ON AIR*
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
CLOCK/TIMERS
PREVIOUS
SET CLOCK
TIME GUARD
HOME SITTER
DUAL ON TIMER
SPECIAL DAY
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
CHANNEL ITEMS
PREVIOUS
SET CATEGORY PREVIEW
YOUR FEVORITES
SET LOCK CODE
CHANNEL SUMMARY
ANTENA INPUT A INPUT B
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
INITIAL SETUP
PREVIOUS
AUTO TUNER SETUP
TUNER MODE CABLE AIR
MUTE LEVEL 5
CLOSED CAPTION
LANGUAGE ENGLISH FRENCH
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
INITIAL SETUP
PREVIOUS
VERTICAL POSITION
VERTICAL SIZE
CONVERGENCE
SIDE PANEL DARK BRIGHT
AUTO DEMO
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY

Adjusting the TV to Room Conditions

—THEATER/AV STATUS

Adjust the picture instantly to suit the program you are watching and the room you are in.

1. Press THEATER/AV STATUS repeatedly to select the mode.

THEATER→BRIGHT ROOM→CHOICE→RESET

- ●The picture changes to the selected mode.
  The display disappears automatically after a few seconds.

THEATER:
- Makes the picture softer and deeper. Darken the room when viewing to get the best effect.
- TINT, COLOR, PICTURE, BRIGHT, and DETAIL sliding scales are set to the center.

BRIGHT ROOM:
- Suitable for watching in a bright room.
- PICTURE is set to maximum.

CHOICE:
- Refer to page 22.

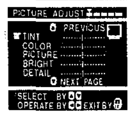
RESET:
- TINT, COLOR, PICTURE, BRIGHT, and DETAIL are set to the center.

Adjusting the Picture

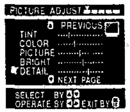
—TINT, COLOR, PICTURE, BRIGHT, DETAIL, VNR, NOTCH

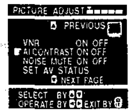
Adjust the picture to suit the program and room brightness, as you like.

1. Press the MENU buttons to display the picture adjustment screen.


PICTURE ADJUST
PREVIOUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

2. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to set its level (or switch it ON/OFF).


PICTURE ADJUST
PREVIOUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY


PICTURE ADJUST
PREVIOUS
VNR ON OFF
AI CONTRAST ON OFF
NOISE MUTE ON OFF
SET AV STATUS
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

- ●This completes the procedure.
  To leave the menu, press EXIT.

Notes:
- There are two pages for picture adjustment.
- For NOISE MUTE, refer to page 34, and for SET AV STATUS, page 22.

Note:
- For details on menu operations, refer to page 16.

Restoring factory settings:
Press THEATER/AV STATUS repeatedly to select RESET.

Note:
- The selected item is displayed in yellow.

VNR:
Video Nose Reduction

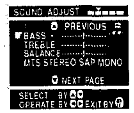
AI CONTRAST:
Automatically adjusts the contrast to suit the brightness of the picture you are viewing.

Adjusting the Sound

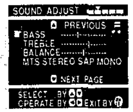
—BASS, TREBLE, BALANCE

Adjust the sound to suit the program and room conditions, if necessary.

1. Press the MENU buttons to display the sound adjustment screen.


SOUND ADJUST
PREVIOUS
BASS
TREBLE
BALANCE
MTS STEREO SAP MONO
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

2. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to set it.


SOUND ADJUST
PREVIOUS
BASS
TREBLE
BALANCE
MTS STEREO SAP MONO
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

- ●This completes the procedure.
  To leave the menu, press EXIT.

Note:
- For MTS, refer to "Listening to Stereo or Bilingual Broadcasts" on this page.

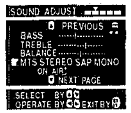
Listening to Stereo or Bilingual Broadcasts

—MTS

Enjoy music and sports programs in stereo or listen to bilingual broadcasts in either language.

1. Press the MENU buttons to scroll to MTS.

""ON AIR" indicates the sound type in use for the current program.


SOUND ADJUST
PREVIOUS
BASS
TREBLE
BALANCE
MTS STEREO SAP MONO
ON AIR
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

2. Press ◀ or ▶ to select the mode you want (STEREO, SAP, MONO).

- ●This completes the procedure.
  To leave the menu, press EXIT.

MTS:
Multichannel Television Sound

Notes:
- MTS has no effect on normal sound broadcasts.
- MTS may not function normally while you are watching cable TV.

STEREO:
Stereo audio program

SAP:
Second Audio Program (for bilingual programs)

MONO:
Use this option when there is a lot of noise.

DOLBY Surround

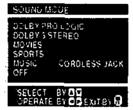
—DOLBY PRO LOGIC
—DOLBY 3 STEREO

Enjoy the higher sound quality of programs recorded in the Dolby Surround system.

To select DOLBY Surround

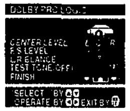
1. Press SOUND MODE.

The SOUND MODE menu appears.


SOUND MODE
DOLBY PRO LOGIC
DOLBY 3 STEREO
MOVIES
SPORTS
MUSIC
CORDLESS JACK
OFF
SELECT BY ▲▼
OPERATE BY ◀▶ EXIT BY

2. Press ▼ to scroll to DOLBY PRO LOGIC or DOLBY 3 STEREO, then press ◀ or ▶ to select it.

The setting menu appears.


DOLBY PRO LOGIC
CENTER LEVEL
F/S LEVEL
L/R BLANCE
TEST TONE (OFF)
FINISH
L C R
SELECT BY ▲▼
OPERATE BY ◀▶ EXIT BY

3. Press ▲ to scroll to FINISH, then press ◀ or ▶ to select it.

- This completes the procedure.
  To leave the menu, press EXIT.

DOLBY PRO LOGIC:
For when the surround speakers are used (when there is a monaural program, the surround speakers will not output any sound).

DOLBY 3 STEREO:
For when the surround speakers are not used (even if the surround speakers are connected, they will output no sound).

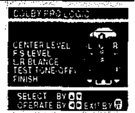
MOVIES / SPORTS / MUSIC:
Refer to next page.

OFF:
For normal sound.

CORDLESS JACK:
Refer to page 39.

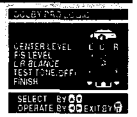
To adjust the DOLBY Sound

1. Select the DOLBY Surround (DOLBY PRO LOGIC or DOLBY 3 STEREO).


DOLBY PRO LOGIC
CENTER LEVEL
F/S LEVEL
L/R BLANCE
TEST TONE (OFF)
FINISH
L C R
SELECT BY ▲▼
OPERATE BY ◀▶ EXIT BY

2. Press ▼ to scroll to TEST TONE, then press ◀ or ▶ to select ON.

The test tone is output from the left, center, and right speakers (and surround speakers if you selected DOLBY PRO LOGIC in step 1) in turn a few seconds apart. Since the tone is broadcast at the same volume from each speaker, you can judge how much to change each speaker's volume to get the effect you want for a particular spot in the room.


DOLBY PRO LOGIC
CENTER LEVEL
F/S LEVEL
L/R BLANCE
TEST TONE (OFF)
FINISH
L C R
SELECT BY ▲▼
OPERATE BY ◀▶ EXIT BY

3. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to set its level.

CENTER LEVEL:
For adjusting the center speaker's volume.

F/S LEVEL (if "DOLBY PRO LOGIC" selected in step 1):
For adjusting the balance between the TV's front and surround speakers.

L/R BALANCE:
For adjusting the balance between the left and right speakers.

TEST TONE:
When you select ON, outputs a test tone from the left, center, and right speakers (and the surround speakers if you selected DOLBY PRO LOGIC) in sequence 1.5 seconds apart.

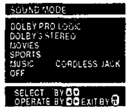
A "Being-There" Sound

–DSP

You can enhance a program's sound by choosing one of three modes besides normal sound: MOVIES, SPORTS, and MUSIC. Each mode has three additional effects so you can further fine tune the sound.

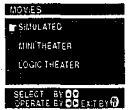
1. Press SOUND MODE.

The Sound Mode menu appears.


SOUND MODE
DOLBY PRO LOGIC
DOLBY 3 STEREO
MOVIES
SPORTS
MUSIC
CORDLESS JACK
OFF
SELECT BY ▲▼
OPERATE BY ◀▶ EXIT BY

2. Press ▼ or ▲ to select the mode you want (MOVIES, SPORTS, MUSIC).

The Sound Mode changes in a few seconds.


MOVIES
SIMULATED
MINI THEATER
LOGIC THEATER
SELECT BY ▲▼
OPERATE BY ◀▶ EXIT BY

3. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to select it.

DSP:
Digital Sound Processor

Notes:
- Sound effects are better with a stereo source than a monaural source. If you use LOGIC THEATER or LOGIC HALL with a monaural source, sound is not output from the surround speakers.
- By connecting the surround speakers you can get the effect of being in the center of the music (see page 38).

To set to normal sound:
Select OFF.

Sound Effect (select in step 3 above)	**Effect**	**Sample Program**
If you select "MOVIES" in step 2:		
1. SIMULATED	A monaural program is output as if in stereo.	For soap operas and general TV programs.
2. MINI THEATER	Gives the feeling of a small movie theater.	For regular movies.
3. LOGIC THEATER	Makes the sound image orientation clear, giving motion and depth to the sound.	For DOLBY SURROUND movies.
If you select "SPORTS" in step 2:		
1. RING SIDE	Gives the feeling of watching a sports event at the ring side.	For pro-wrestling and boxing programs.
2. STADIUM	Gives the feeling of a large baseball stadium with reverberation effects.	For football, baseball, and stadium concert programs.
3. ARENA	Gives the effect of a domed stadium or place with a high ceiling.	For domed stadium concert programs or basketball.
If you select "MUSIC" in step 2:		
1. JAZZ CLUB	Gives the feeling of a small jazz club where the musicians are right before you.	For mini concert programs.
2. SYMPHONY HALL	Gives the feeling of a large concert hall with rich acoustics and depth.	For full-orchestra programs.
3. LOGIC HALL	Gives the effect of a medium-sized concert hall, with reverberation and depth.	For opera and solo concert programs.

- This completes the procedure. The menu disappears in a few seconds.

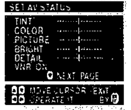
Storing Picture/Sound Adjustments

— SET AV STATUS

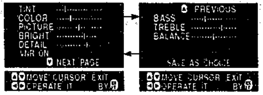
Memorize picture/sound adjustments and use them later to enhance the program being watched.

1. Press the MENU buttons to select SET AV STATUS.

The SET AV STATUS menu appears.


SET AV STATUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
VNR ON
NEXT PAGE
MOVE CURSOR EXIT
OPERATE IT BY

2. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to set it (or switch it ON/OFF).


SET AV STATUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
VNR ON
NEXT PAGE
MOVE CURSOR EXIT
OPERATE IT BY
SET AV STATUS
PREVIOUS
BASS
TREBLE
BALANCE
SAVE AS CHOICE
MOVE CURSOR EXIT
OPERATE IT BY

Note:

- Pressing ▼ while at NOTCH displays the sound adjust menu. Pressing ▲ while at BASS displays the picture adjust menu.

3. Press ▼ to move the cursor to SAVE AS CHOICE, then press ◀ or ▶ to select it.

- The setting is stored and the MENU screen returns.
  To leave the menu, press EXIT.

To recall stored picture and sound settings.

1. Press THEATER/AV STATUS repeatedly to select CHOICE.

THEATER→BRIGHT ROOM→CHOICE→RESET

- The television changes to the stored settings.
  The display disappears automatically after a few seconds.

Muting the Sound

—MUTE, MUTE LEVEL

You can mute the volume completely (to 0), or to a preset level.
Muting is convenient when you answer the phone or when you need to talk to someone.

1. Press MUTE.

The volume is set to a preset level and "MUTE" appears on the screen.

- Pressing it again restores the volume.

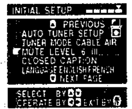
Notes:

- Muting can also be canceled by pressing VOLUME (–/+).
- If the volume is already lower than the preset mute level, pressing MUTE sets the sound to "0".

To set the mute level

— MUTE LEVEL

1. Press the MENU buttons to scroll to MUTE LEVEL.


INITIAL SETUP
PREVIOUS
AUTO TUNER SETUP
TUNER MODE CABLE AIR
MUTE LEVEL 5
CLOSED CAPTION
LANGUAGE ENGLISH FRENCH
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY

2. Press ◀ or ▶ to set the mute level.

- This completes the procedure.
  To leave the menu, press EXIT.

Learning Your Favorite Channels

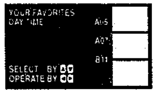
— YOUR FAVORITES

This TV automatically memorizes the channel being received. Use this function to list the three most frequently watched channels and then select one from this list.

Condition:
- The built-in clock must be set (refer to page 28).

Notes:
- Two sets of your favorite channels are stored for each time period: DAYTIME and EVENING.
  DAYTIME : 4:00 am to 5.59 pm
  EVENING : 6:00 pm to 3:59 am
- If the clock is not working, this function is not activated.
- If there is a power interruption, stored channels are erased.

1. Press the MENU buttons to select YOUR FAVORITES.


YOUR FAVORITES
DAY TIME
A05
A07
B11
SELECT BY ▲▼
OPERATE BY ◀▶

2. Press ▼ or ▲ to scroll to the channel you want, then press ◀ or ▶ to select it.

●The channel you selected appears and the display disappears.

Notes:
- Each channel appears for a few seconds.
- If you select this function when no channels are stored, "NOT ACTIVE" is displayed.

Selecting a Channel by Category

— CATEGORY PREVIEW

There are six categories. You can set six channels for each category.

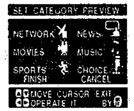
Setting Procedure

1. If necessary, select the broadcast mode for the channels you will set (ANTENNA A or B and AIR or CABLE).

To select the broadcast mode:
Refer to page 11 "Watching a television program", steps 3 and 4.

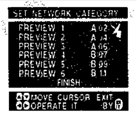
2. Press the MENU buttons to select SET CATEGORY PREVIEW.

The six categories are displayed.


SET CATEGORY PREVIEW
NETWORK
NEWS
MOVIES
MUSIC
SPORTS
CHOICE
FINISH
CANCEL
▲▼MOVE CURSOR EXIT
◀▶OPERATE IT BY

3. Press ▼ or ▲ to scroll to the category you want, then press ◀ or ▶ to select it.

The channel setting menu is displayed.


SET NETWORK CATEGORY
PREVIEW 1 A 02
PREVIEW 2 A 04
PREVIEW 3 A 05
PREVIEW 4 B 07
PREVIEW 5 B 09
PREVIEW 6 B 11
FINISH
▲▼MOVE CURSOR EXIT
◀▶OPERATE IT BY

4. Press the MENU buttons to make the settings.

1. Press ▼ or ▲ to select the category position.
2. Press ◀ or ▶ to select a channel for the position.
3. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

To continue setting other channels:
- To set in the same category, repeat 1 and 2 of step 4.
- To set in a different category, repeat steps 3 and 4.

Note:
- A channel which has been locked using CHANNEL GUARD cannot be set (refer to page 27).

If you select CANCEL:
All the channel settings for all the categories are canceled.

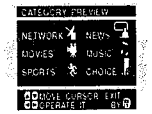
5. Press ▼ or ▲ to move the cursor to FINISH, then press ◀ or ▶ to save your category selections.

●This completes the procedure.
The settings are stored and the display disappears.

To select a set channel

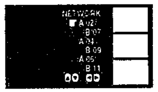
1. Press CATEGORY PREVIEW.

The six categories are displayed.


CATEGORY PREVIEW
NETWORK
NEWS
MOVIES
MUSIC
SPORTS
CHOICE
▲▼MOVE CURSOR EXIT
◀▶OPERATE IT BY

2. Press ▼ or ▲ to scroll to the category you want, then press ◀ or ▶ to select it.

A list of channels is displayed.


NETWORK
A 02
B 07
A 04
B 09
A 05
B 11
▲▼ ◀▶

Note:
- Each set channel appears for a few seconds.

3. Press ▼ or ▲ to scroll to the channel you want, then press ◀ or ▶ to select it.

●The channel you selected appears and the display disappears.

Checking and Setting Channel Status

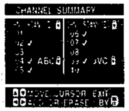
—CHANNEL SUMMARY

View a summary of the channel settings and then change the scanned channels, station ID, and channel guarding.

To view the settings

1. Press the MENU buttons to select CHANNEL SUMMARY.

The CHANNEL SUMMARY menu is displayed and you can view the current settings. From this menu, you can make these settings.



SCAN:
Turn scanning on or off for the selected channel by pressing CHANNEL/HYPER SCAN (–/+).
Channels that have stations are marked with ✓.
Channels allocated stations during AUTO TUNER SETUP are also marked with ✓.

ID:
Set a station name of up to 4 characters.
You can set station names for up to 50 channels.

🔒:
Channels that you can not watch without inputting the LOCK CODE.

To set a channel to be scanned

Choose which the channels you can select using the CHANNEL/HYPER SCAN (–/+) button. You can also delete channels selected during AUTO TUNER SETUP.

Condition:
- You must display the CHANNEL SUMMARY menu to select the channel you want to set.

1. Press ◀ or ▶ to set or delete a channel.

Scannable channels are marked with ✓.

●This completes the procedure.
To leave the menu, press EXIT.

Note:
- To select a channel from the CHANNEL SUMMARY menu, use CHANNEL/HYPER SCAN (–/+).
  Each time you press the button lightly (1st stage), the next channel is selected. When you press the button strongly (2nd stage), the cursor moves to the next scannable channel.

To set other channels:
Use CHANNEL/HYPER SCAN (–/+) to move the cursor to the channel you want to set and repeat step 1.

To set station IDs

This procedure displays a four-character station name with the channel number.

Condition:
- You must display the CHANNEL SUMMARY menu to select the channel you want to set.

1. Press ▼ or ▲ to scroll to the ID row. Press ◀ or ▶ to enter the ID setting menu.

The station ID setting menu is displayed.

STATION
CHANNEL
FINISH CANCEL
MOVE CURSOR EXIT
SELECT LETTERS BY

Notes:
- The station ID is displayed when a channel is selected and when YOUR FAVORITES or CATEGORY PREVIEW is selected.
- Channels for which station IDs have been set are automatically scannable. When you delete a preset channel from scanning, its station ID is also cleared automatically.

2. Press ◀ or ▶ to select the character, then press ▼ to enter it.

When you enter one character, the cursor moves to the next position. Repeat step 2 to enter four characters.

●This completes the procedure.
Select FINISH to return to the CHANNEL SUMMARY menu.
To leave the menu, press EXIT.

To set other channels:
Use CHANNEL/HYPER SCAN (–/+) to move the cursor to the channel you want to set and repeat Steps 1 and 2.

To set channel guarding (CHANNEL GUARD)

This locks channels so they cannot be watched without inputting the lock code.

Condition:
- You must display the CHANNEL SUMMARY menu to select the channel you want to lock.

1. Press ▼ or ▲ to move the cursor to the 🔒 row, then press 0.

Guarded channels are marked with 🔒.

●This completes the procedure.
To leave the menu, press EXIT.

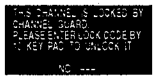
Notes:
- The LOCK CODE is the same as that of the CHILD TIMER. The LOCK CODE is "000" when the TV is shipped from factory and after a power interruption.
- A guarded channel cannot be assigned to CATEGORY PREVIEW, DUAL ON TIMER, or HOME SITTER.

To lock other channels:
Press CHANNEL/HYPER SCAN (–/+), move the cursor to the channel you want to set, and repeat step 1.

To view guarded channels

1. Press the number buttons to select the guarded channel.

The display appears requesting your LOCK CODE.


THIS CHANNEL IS LOCKED BY CHANNEL GUARD.
PLEASE ENTER LOCK CODE BY 10 KEY PAD TO UNLOCK IT
NO ---

Note:
- Guarded channels cannot be selected using CHANNEL/HYPER SCAN (–/+).

2. Press the number buttons to input the lock code.

●The display disappears and the channel you selected appears.

If the wrong LOCK CODE is entered:
"INVALID LOCK CODE." is displayed and the channel remains unchanged.

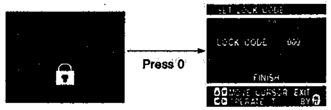
If you forget the LOCK CODE:
Set another lock code.

To set the LOCK CODE

— SET LOCK CODE

This procedure sets the lock code, which is used for the CHILD TIMER and for guarded channels.

1. Press the MENU buttons to select SET LOCK CODE.
   The lock symbol appears.
2. Press 0 before the symbol disapears.
   The SET LOCK CODE menu is displayed.
3. Press ◀ or ▶ to select the number, then press ▼.
   Repeat step 3 to set a 3-digit LOCK CODE.
4. Press ▼ to move the cursor to FINISH, then press ◀ or ▶ to select it.



●This completes the procedure. To leave the menu, press EXIT.

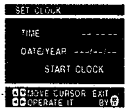
Setting the Clock

— SET CLOCK

The TV has a built-in clock which displays the current time on the screen. The timer functions do not work if this clock stops.

1. Press the MENU buttons to select SET CLOCK.

The SET CLOCK menu is displayed.



SET CLOCK

TIME -- ----

DATE/YEAR ---/--/--

START CLOCK

2. Press ▼ or ▲ to scroll, then press ◀ or ▶ to set the current time and date.

3. Press ▼ to scroll to START CLOCK, then press ◀ or ▶ to start the clock.

"THANK YOU" is displayed and the display disappears.

Notes:
- If there is a power interruption, the clock will stop. However, if the power interruption lasts only a few minutes, the clock will be slow by the number of minutes the power was cut off. In this case, set the clock again.
- The clock is in 12-hour time.

If a timer function is selected without setting the clock:
"POWER INTERRUPTED WOULD YOU SET CLOCK FIRST?" appears on the screen.
If you select YES, the SET CLOCK menu is displayed. Set the clock.
Once the clock is set, the display returns to timer setting mode and you can set the timer.
If you select NO, timer setting mode ends and a message appears telling you that the timer cannot be set.

Sleep Timer Operation

— SLEEP TIMER

The TV will turn off even if you fall asleep while watching it.

Condition:
- The built-in clock must be set (refer to page 28).

1. Press SLEEP TIMER to set the duration.

Each time you press SLEEP TIMER, the duration increases 15 minutes.

0→15→30→45→60→75→90→------→180

Notes:
- After the SLEEP TIMER turns off the TV, its setting is canceled.
- If the TV is turned off or if there is a power interruption, the SLEEP TIMER is canceled.
- The SLEEP TIMER can be set up to 180 minutes from the current time.
- If the clock is not working, the SLEEP TIMER cannot be set.
- 20 seconds prior to turning off the TV, "GOOD NIGHT!! PUSH SLEEP TIMER BUTTON TO EXTEND" is displayed on the screen. If you press SLEEP TIMER while this message is on the screen, the duration is extended 15 minutes.

Guarding the channel

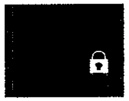
— TIME GUARD

If the clock is set, you can lock channels so that viewers must enter a LOCK CODE to view them.

Condition:
- The built-in clock must be set.

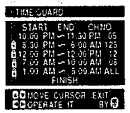
1. Press the MENU buttons to select TIME GUARD.

The lock symbol is displayed.



2. Press 0 before the symbol disappears.

The TIME GUARD list is displayed.

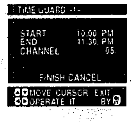


TIME GUARD

START END CHNO
10.00 PM ~ 11.30 PM 05
8.30 PM ~ 6.00 AM 125
12.00 PM ~ 12.00 PM 12
7.00 AM ~ 10.00 AM 06
1.00 AM ~ 5.00 AM ALL
FINISH

3. Press ▼ or ▲ to scroll to a position, then press ◀ or ▶ to select it.

The TIME GUARD set menu is displayed.



TIME GUARD -1-

START 10.00 PM
END 11.30 PM
CHANNEL 05

FINISH CANCEL

4. Press the MENU buttons to make each setting.

Press HELP for an explanation of how to make settings.
The TIME GUARD list screen returns.

5. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

●This completes the procedure.
To leave the menu, press EXIT.

Notes:
- The clock must be working to set TIME GUARD.
- Guarded channels cannot be selected with CHANNEL/HYPER SCAN (–/+)

To view guarded channels

1. Press the number buttons to select the channel.

The display requests your LOCK CODE.

2. Press the number buttons to input the LOCK CODE.

●The display disappears and the channel you selected appears.

Notes:
- The LOCK CODE is the same as that of channel guard. The LOCK CODE is "000" when shipped from the factory, and after a power interruption.
- Guarded channels cannot be selected with CHANNEL/HYPER SCAN (–/+)

If the wrong LOCK CODE is entered:
"INVALID LOCK CODE." is displayed and the channel remains unchanged.

If you forget the LOCK CODE:
Set another LOCK CODE (refer to page 27).

Turning the TV ON/OFF at a set time, every day

— HOME SITTER

The TV turns on to a set channel at a set time, and turns off at a set time.

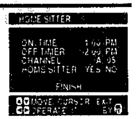
Condition :
- The built-in clock must be set (refer to page 28).

Notes:
- If there is a power interruption, the HOME SITTER setting is canceled.
- If the clock is not working, the HOME SITTER cannot be set.

1. If necessary, select the broadcast mode (ANTENNA A or B, and AIR or CABLE).

2. Press the MENU buttons to select HOME SITTER.

The HOME SITTER menu is displayed.



3. Press the MENU buttons to make each setting.

1. Press ◀ or ▶ to set the times for the TV to turn on and off.
2. Press ▼ to scroll, then press ◀ or ▶ to set the channel.
3. Press ▼ to scroll, then press ◀ or ▶ to select YES.

Note:
- The HOME SITTER cannot be set for channels locked by CHANNEL GUARD (refer to page 27).

4. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

The settings are stored and the menu screen returns.

- ●This completes the procedure. To leave the menu, press EXIT.
  The ON TIMER lamp lights up.

Timer for desired programs

— DUAL ON TIMER

The TV turns on at a set time, at a set channel. Up to two programs can be set.

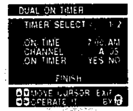
Condition:
- The built-in clock must be set (refer to page 28).

Notes:
- After the DUAL ON TIMER turns on the TV, its setting is canceled.
- If there is a power interruption, the DUAL ON TIMER is canceled.
- If no operation is done within two hours after the DUAL ON TIMER turns on the TV, the TV will turn off automatically.
- If the clock is not working, the DUAL ON TIMER cannot be set.

1. If necessary, select the broadcast mode (ANTENNA A or B, and AIR or CABLE).

2. Press the MENU buttons to select DUAL ON TIMER.

The DUAL ON TIMER menu is displayed.



3. Press the MENU buttons to make each setting.

1. Press ◀ or ▶ select Timer 1 or 2.
2. Press ▼ to scroll, then press ◀ or ▶ to select the time for the television to turn on.
3. Press ▼ to scroll, then press ◀ or ▶ to select the channel.
4. Press ▼ to scroll, then press ◀ or ▶ to select YES.

4. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

The settings are stored and the menu screen returns.

- ●This completes the procedure. To leave the menu, press EXIT.
  The ON TIMER lamp lights up.

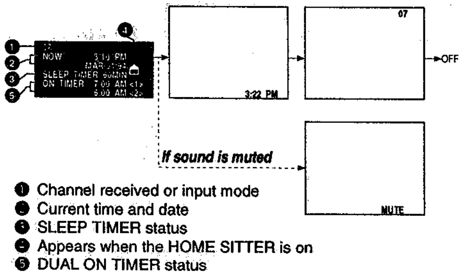
Note:
- The DUAL ON TIMER cannot be set for channels locked by CHANNEL GUARD.

Displaying TV status

— DISPLAY

Displays the timer settings, current time, and channel number.

1. Press DISPLAY repeatedly.


①
②
③
④
⑤
07
NOW 3:10 PM
MAR 21 94
SLEEP TIMER 60MIN
ON TIMER 7:00 AM <1>
5:00 AM <2>
3:22 PM
07
OFF
If sound is muted
MUTE

- ❶ Channel received or input mode
- ❷ Current time and date
- ❸ SLEEP TIMER status
- ❹ Appears when the HOME SITTER is on
- ❺ DUAL ON TIMER status

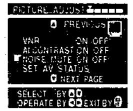
Notes:
- If the clock is not working, "CLOCK NOT SET" is displayed instead of the current time.
- Dates of SPECIAL DAYs are shown on the second page.

Turning empty channels blue

— NOISE MUTE

Change picture noise that appears on empy channels into a quiet solid blue screen.

1. Press the MENU buttons to select NOISE MUTE.


PICTURE ADJUST
PREVIOUS
VNR ON OFF
AI CONTRAST ON OFF
NOISE MUTE ON OFF
SET AV STATUS
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY

2. Press ◀ or ▶ to select ON or OFF.

●This completes the procedure.
To leave the menu, press EXIT.

Returning to a Specific Channel

— RETURN+

This function allows you to return to a previously selected channel (see below). If the channel you are watching is the selected channel, use this function to return to it after checking other channels (this is especially useful during commercials).

1. Press RETURN+ button.

The TV returns to the RETURN CHANNEL.

To select a RETURN CHANNEL.

1. Select a channel.

2. Press and hold RETURN+ for more than three seconds.

"RETURN CHANNEL PROGRAMMING" is displayed.

To cancel a RETURN CHANNEL

1. Press and hold RETURN+ for more than three seconds.

"RETURN CHANNEL CANCELED" is displayed.

Note:
- When you turn off the power, or select another channel with the number keys, any selected RETURN CHANNEL is canceled.

To return to the previous channel

If no RETURN CHANNEL is selected, pressing RETURN+ returns to the last channel viewed.

1. Press RETURN+.

The last and current channels alternate.

Viewing Closed Captions

— CLOSED CAPTION

Use this function to watch closed captions of a TV broadcast, a video cassette, or a video disc.

Condition:
- Tune the TV to a program or video source which contains closed captions.

1. Press CLOSED CAPTION repeatedly.

→CLOSED CAPTION→TEXT→OFF

Notes:
- Closed captions may not be displayed correctly for cable TV or a video source with copy guard.
- If poor reception affects the display of closed captions, press CLOSED CAPTION again, or retune the channel.

TEXT:
For teletext
If a black background appears while watching video tapes and discs without closed captions, turn this function off.

To set CAPTION mode and TEXT mode

1. Press the MENU buttons to select CLOSED CAPTION.

The CLOSED CAPTION menu is displayed.

2. Press the MENU buttons to make each setting.

1. Press ◀ or ▶ to set CAPTION mode.
2. Press ▼ to scroll, then press ◀ or ▶ to select TEXT.
3. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

The settings are stored and the menu screen returns.

- ●This completes the procedure.
  To leave the menu, press EXIT.

About CAPTION/TEXT mode:
Press HELP in step 1 or 2 to show the help screen.

To select the closed captions' BACKGROUND

1. Press the MENU buttons to select CLOSED CAPTION.

The CLOSED CAPTION menu is displayed.

2. Press the MENU buttons to make each setting.

1. Press ▼ to scroll to BACKGROUND, then press ◀ or ▶ to select BLACK or CLEAR.
2. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

The settings are stored and the menu screen returns.

- ●This completes the procedure.
  To leave the menu, press EXIT.

Messages for Special Days

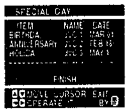
— SPECIAL DAY

Displays a reminder on a special day (such as a birthday or anniversary).

Condition:
- The built-in clock must be set (refer to page 28).

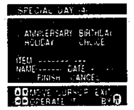
1. Press the MENU buttons to select SPECIAL DAY.

The SPECIAL DAY list is displayed.



2. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to select it.

The SPECIAL DAY setting screen is displayed.



3. Press ▼ or ▲ to scroll to an item (ANNIVERSARY, HOLIDAY, BIRTHDAY, CHOICE), then press ◀ or ▶ to select it.

If you select CHOICE:
You can make your own message. Scroll using ▼ or ▲ and press ◀ or ▶ to select a character. Your message can be up to 11 characters long.

4. Press the MENU buttons to make each setting.

1. Press ◀ or ▶ to select a character, then press ▼ to enter it.
   When you enter a character, the cursor moves to the next one. Repeat until you have a five-character name.
2. Press ◀ or ▶ to set the month and day.
3. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.
   The settings are stored and the SPECIAL DAY list returns.

5. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

- ●This completes the procedure.
  To leave the menu, press EXIT.

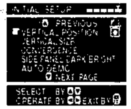
Changing the Side Panel Brightness

— SIDE PANEL

In REGULAR mode, the brightness of the dark panels on the sides can be changed.

Condition:
- Set the Aspect Ratio to REGULAR (refer to page 12).

1. Press the MENU buttons to scroll to SIDE PANEL.


INITIAL SETUP
PREVIOUS
VERTICAL POSITION
VERTICAL SIZE
CONVERGENCE
SIDE PANEL DARK BRIGHT
AUTO DEMO
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

2. Press ◀ or ▶ to select DARK or BRIGHT.

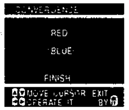
- This completes the procedure.
  To leave the menu, press EXIT.

Convergence Adjustment

— CONVERGENCE

Use this feature to adjust the color if it is irregular near the edges.

1. Press the MENU buttons to scroll to CONVERGENCE, then press ◀ or ▶ to select it.


CONVERGENCE
RED
BLUE
FINISH
MOVE CURSOR
OPERATE IT
EXIT BY

2. Press ▼ or ▲ to scroll to RED or BLUE, then press ◀ or ▶ to select it.

CONVERGENCE
OPERATE IT
PREVIOUS MENU BY

3. Press the MENU buttons to adjust the convergence.

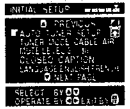
- This completes the procedure.
  To leave the menu, press EXIT.

Changing the Menu to French

— LANGUAGE

Most of the functions of this TV are selected while watching the menus.
You can change the language of the menus into French.

1. Press the MENU buttons to scroll to LANGUAGE.


INITIAL SETUP
PREVIOUS
AUTO TUNER SETUP
TUNER MODE CABLE AIR
CLOSED CAPTION
LANGUAGE ENGLISH FRENCH
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

2. Press ◀ or ▶ to select the language.

- This completes the procedure.
  To leave the menu, press EXIT.

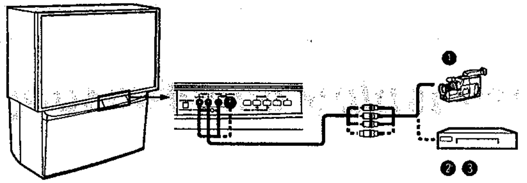
Connecting External Equipment

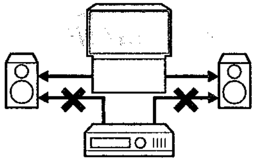
—CONNECTION DIAGRAM

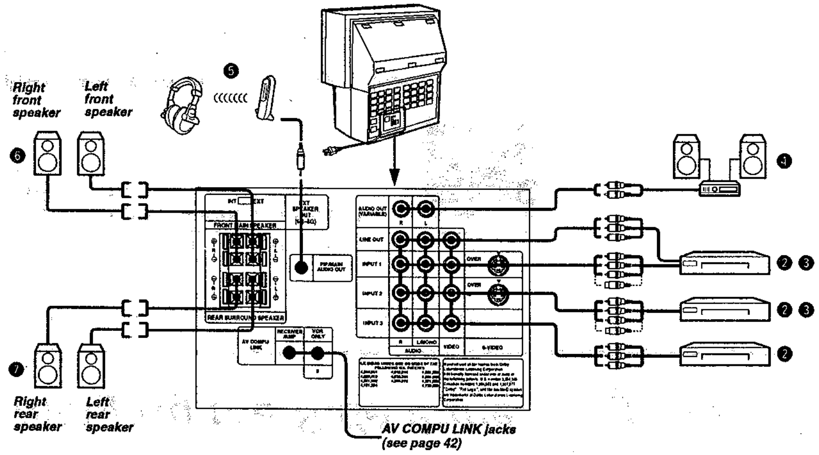
Conditions:
- Before connecting equipment, disconnect the TV's power cord from the AC outlet.
- To view a video played back by a connected device such as a VCR, press TV/VIDEO (see step 2 on page 11).

① Video Camera
② VCR
③ S-VHS VCR or camera
④ Audio component
⑤ Cordless headphones
⑥ External speakers
⑦ Surround speakers

Notes:
- See the "Notes" on page 7 and the operating instructions of the external equipment.
- Interference from external equipment may cause picture quality to deteriorate. If picture noise occurs, turn OFF equipment that you are not using or move connected devices further apart.
- Connect the video signal of an S-VHS VCR to the S-VIDEO jack.
- Do not connect any equipment to the TV's speakers. Doing so may damage the TV or the external equipment.







Using External Speakers

— OUTPUT SPEAKERS

When external speakers are connected to the FRONT MAIN SPEAKER jacks, the Speaker switch must be set to the correct position.

Note:
- Sounds are output from both the TV's center speaker and surround speakers (connected to the REAR SURROUND SPEAKER jacks) regardless of the Speaker switch setting.

1. Set the Speaker switch to the EXT position.

INT EXT

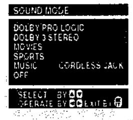
Using Cordless Headphones or Speakerts

— CORDLESS JACK

The sound can also be output through the PIP / MAIN AUDIO OUT jack. Set as desired.

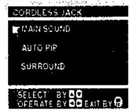
1. Press SOUND MODE.

The Sound Mode menu appears.



SOUND MODE
DOLBY PRO LOGIC
DOLBY 3 STEREO
MOVIES
SPORTS
MUSIC CORDLESS JACK
OFF
SELECT BY ▲▼
OPERATE BY ◀▶ EXIT BY

2. Press ▼ or ▲ to scroll to CORDLESS JACK, then press ◀ or ▶ to select it.



CORDLESS JACK
MAIN SOUND
AUTO PIP
SURROUND
SELECT BY ▲▼
OPERATE BY ◀▶ EXIT BY

3. Press ▼ or ▲ to scroll to the output sound (MAIN,SOUND, AUTO PIP, SURROUND, then press ◀ or ▶ to select it.

- This completes the procedure.
  To leave the menu, press EXIT.

MAIN SOUND:
For listening to as the main speaker sound.

MAIN / PIP SOUND:
For listening to the sound of the small picture (you hear the main sound when there is no small picture).

SURROUND SOUND:
For listening to surround sound.
To use a cordless surround speaker, select surround sound. Before switching back to MAIN or MAIN / PIP SOUND, decrease the cordless speaker's volume.

Using the TV's remote control to operate a CATV converter and VCR — TV/CATV SELECTOR

The remote control can be used to operate a CATV converter and VCR.

Condition:
- Enter the VCR and CATV converter manufacturer's codes into the remote control.

1. Set the TV/CATV selector to CATV.

CATV converter-controllable buttons:
POWER, CHANNEL/HYPER SCAN (–/+), number buttons, 100+, RETURN^{+} (depending on the type of CATV encoder, the 100+ and RETURN^{+} buttons may work as the ENTER button).

VCR-controllable buttons:
REW, PLAY, FF, REC, STOP, PAUSE, VCR POWER, VCR CHANNEL

Setting the manufacturer's code

1. Press POWER (or VCR POWER) and the RETURN^{+} at the same time.

2. Use the number buttons to input the manufacturer's code, then press RETURN^{+}.

- This completes the procedure.
  Test the remote control.

Note:
- When shipped, the remote control is set to operate a JVC VCR and manufacturer's code "000" CATV converter.

To replace the batteries:
The set manufacturer's code will be in memory only for a specific time. When you replace the batteries, do so within one minute (refer to page 9).

Notes:
- The VCR can be operated regardless of the TV/CATV setting.
- Depending on the VCR or CATV converter, a few buttons may not work.

To set the CATV converter:
In step 1, press POWER and RETURN^{+} at the same time.

To set the VCR:
In step 1, press VCR POWER and RETURN^{+} at the same time.

Note:
- In the manufacturer's code table, if a manufacturer has several codes, try each one until you find the one that works.

Manufacturer's code table (CATV converter)

Manufacturer	Manufacturer's Code	Manufacturer	Manufacturer's Code	Manufacturer	Manufacturer's Code
ABC	007 011 013 017	MOVIE TIME	156	SPRUCER	021 307
ANTRONIX	207	NSC	063 070 156	STANDARD COMPONENTS	096 155
ARCHER	153 207	OAK	007 019 248	STARCOM	003 015 047
CABLE STAR	056	PANASONIC	021 107	STARGATE	015 040
CENTURY	153	PARAGON	000	SYLVANIA	001
CITIZEN	153	PHILIPS	025 027 029 030 031 060 290	TANDY	258
COLOUR VOICE	025 031	PHILIPS ECG	242	TEXSCAN	001 096
COMTRONICS	040 060	PIONEER	023 144	TOCOM	012 013 059
EASTERN	002	PULSAR	000	TOSHIBA	000
GARRARD	153	RCA	021	TV86	063
GC ELECTRONICS	056	REALISTIC	207	UNICA	153 207
GEMINI	015 070 242	REGAL	020 259 273 279	UNITED ARTISTS	007
GENERAL INSTRUMENT	011 276	REGENCY	002	UNITED CABLE	003
HAMLIN	009 020 034 259 273	REMBRANDT	070	UNIVERSAL	056 153 207
HITACHI	011	RUNCO	000	VIDEOWAY	250
JASCO	153	SAMSUNG	040 144	VIEWSTAR	027 060 063 111 211 258 289
JERROLD	003 011 012 014 015 026 047	SCIENTIFIC ATLANTA	006 008 017 277	ZENITH	000 054
MACOM	033	SIGNAL	015 040	JERROLD	459
MAGNAVOX	027 032	SIGNATURE	011	SCIENTIFIC ATLANTA	460
MEMOREX	000	SL MARX	040	STARCOM	459

Manufacturer's code table (VCR)

Manufacturer	Manufacturer's Code	Manufacturer	Manufacturer's Code	Manufacturer	Manufacturer's Code
AIKO	278	LXI	037	RCA UNIFIED	060
AIWA	000	MAGANAVOX	035 081 103 110 149	REALISTIC	000 035 037 046 047 048 062 066 104 240
AKAI	041 049 053 061 106 242	MARANTZ	035 038 081	RICOH	034
AUDIOVOX	037	WARTA	037	RUNCO	039
BELL&HOWELL	104	MEI	035	SAMSUNG	045 053 240
BROKSONIC	121 184 211 361	MEMOREX	000 035 037 039 046 047 048 104	SANSUI	041 067 082 271
CANON	035 167	MGA	043 061	SANYO	046 047 104
CAPEHART	020	MINOLTA	042 105	SCOTT	121 184 210 212
CARVER	081	MITSUBISHI	061 075 173 214 242	SEARS	035 037 042 046 047 054 057 066 104 105
CCE	278	MITSUBISHI UNIFIED	043	SHARP	048 062
CRAIG	047 240 271	MTC	000 240	SHINTOM	072
CURTIS MATHES	035	MULTITECH	000 072	SONY	011 032 033 034 035
DAEWOO	020 045 087 278	NAD	058	STS	042
DAYTRON	020	NEC	038 040 041 067 082	SYLVANIA	035 043 081 103 110
DYNATECH	000	NIKKO	037	SYMPHONIC	000
EMERSON	000 002 037 061 121 184 208 209 211 212 294 295 361	OPTONICA	048 062	TANDY	000
FISHER	047 054 066 104	PANASONIC	035 225	TATUNG	041
FUNAI	000	PENNEY	035 037 038 040 042 240	TEAC	000 041
GE	035 060 065	PENTAX	042 065 105	TECHNICS	035
GO VIDEO	232 279	PHILCO	035	TEKNIKA	000 035 037
GOLDSTAR	018 037 038	PHILIPS	035 062 081 110	TOTEVISION	037 240
HARMAN/KARDON	038 075	PILOT	037	TOSHIBA	043 045 057 066 210 212
HITACHI	000 041 042 065 105 166	PIONEER	168	UNITECH	240
JCL	035	PIONEER UNIFIED	058 067	VECTOR RESEARCH	038 040
JENSEN	041	PORTLAND	020	VIDEO CONCEPTS	040 061
JVC	041 067 068	PULSAR	039	VIDEOSONIC	240
KENWOOD	041 046 067	QUARTZ	046	YAMAHA	038 041
LLOID	000	QUASAR	035 096	ZENITH	033 034 039
LOGIK	072	RCA	035 042 065 105 149 202	WARDS	000 035 042 047 048 062 072 149 212 240

- Some models cannot be set.

If you do not know the manufacturer's code

Some models may be set by following the procedure shown below even if they are not shown in the manufacturer's code table.

1. Press POWER (or VCR POWER) and RETURN^{+} at the same time.

2. Press POWER (or VCR POWER). Repeat step 2 until the CATV converter (or VCR) power comes on.

3. Press RETURN^{+}.

- This completes the procedure.
  Test the remote control.

To set the CATV converter:
Press POWER and RETURN^{+} at the same time.

To set the VCR:
Press VCR POWER and RETURN^{+} at the same time.

AV COMPU LINK connection

— AV COMPU LINK

This TV set is capable of using an AV COMPU LINK. If the TV set is connected to a JVC AV Compu Link-capable VCR and/or hi-fi receiver (or amplifier), automatic switching functions are available.

If the TV set is connected to a JVC AV Compu Link-capable VCR, simply insert a video cassette (with its safety tabs removed) into the VCR. The TV set turns on automatically and the video playback is displayed on the screen.

If the TV set is connected via a JVC AV Compu Link-capable hi-fi receiver (or amplifier) to a JVC AV Compu Link-capable VCR, you can do the following:

- Insert a video cassette (with its safety tabs removed) into the VCR. Both the TV set and receiver (or amplifier) turn on automatically and the video is displayed on the screen.
- Change the input source of the receiver (or amplifier) to video input mode. The TV set's input source selector automatically swiches to video input mode [VIDEO-1 or VIDEO-2].
- Turn the receiver (or amplifier) on (or off). Both the TV set and VCR are automatically turned on (or off). For example, if the input source selector of the receiver (or amplifier) is set to "VCR1" and the receiver (or amplifier) is turned on, the TV set and VCR connected to VCR1 are also turned on.

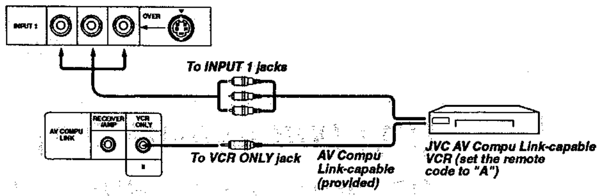
In addition to connecting video and audio signal cables, connect the AV Compu Link cable to the AV COMPU LINK jacks (VCR ONLY or RECEIVER/AMP jacks) to transmit control signals via the AV Compu Link cable.

Notes:

- If the TV set is connected to a VCR, connect the provided AV Compu Link cable to the VCR ONLY jack of the TV set. If the VCR is connected to the RECEIVER/AMP jack, this function is not operable.
  If the TV set is connected to the monitor output of an AV Compu Link-capable receiver (or amplifier), and the VCR is connected to the receiver (or amplifier), connect the AV Compu Link cable to the RECEIVER/AMP jack. If the receiver (or amplifier) is connected to the VCR ONLY jack, this function cannot be operated.
- When a VCR or receiver (or amplifier) is connected to the AV COMPU LINK jacks, set the remote code of the VCR's remote control unit as follows:
  - If a VCR is connected to the TV set's INPUT 1 jacks, set the VCR's remote code to "A".
- Also refer to the instruction manuals of the VCR and/or receiver (or amplifier).

Connecting an AV COMPU LINK-capable VCR

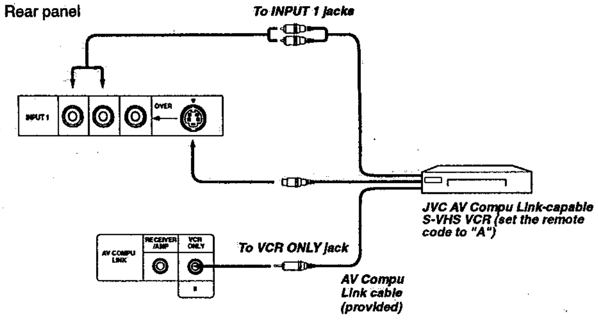
Rear panel


INPUT 1
OVER
To INPUT 1 jacks
AV COMPU LINK
RECEIVER/AMP
VCR ONLY
To VCR ONLY jack
AV Compu Link-capable (provided)
JVC AV Compu Link-capable VCR (set the remote code to "A")

VCR Remote control code A switches the TV to VIDEO INPUT 1.
VCR Remote control code B switches the TV to VIDEO INPUT 2.

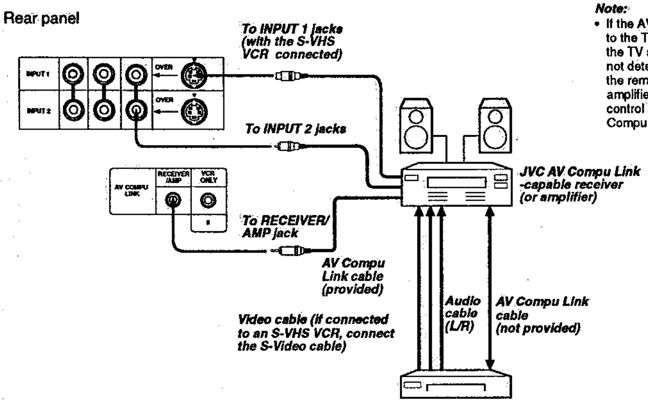
Connecting an AV COMPU LINK-Capable S-VHS VCR

Rear panel


To INPUT 1 jacks
INPUT 1
OVER
JVC AV Compu Link-capable S-VHS VCR (set the remote code to "A")
AV COMPU LINK
RECEIVER/AMP
VCR ONLY
To VCR ONLY jack
AV Compu Link cable (provided)

Connecting an AV COMPU LINK-Capable Receiver (or Amplifier)

Rear panel


To INPUT 1 jacks (with the S-VHS VCR connected)
INPUT 1
INPUT 2
OVER
To INPUT 2 jacks
AV COMPU LINK
RECEIVER/AMP
VCR ONLY
To RECEIVER/AMP jack
AV Compu Link cable (provided)
Video cable (If connected to an S-VHS VCR, connect the S-Video cable)
Audio cable (L/R)
AV Compu Link cable (not provided)
JVC AV Compu Link -capable receiver (or amplifier)

Note:

- If the AV Compu Link cable is connected to the TV set's RECEIVER/AMP jack, the TV set's remote control sensor does not detect remote control signals. Aim the remote control at the receiver (or amplifier). Signals from the remote control are transmitted via the AV Compu Link cable to the TV set.

Troubleshooting

- If the power cord plug is disconnected from the AC outlet, or the TV antenna is causing problems, you may think there is a problem with the TV itself; be sure to check the following items before calling for service.

Important:
- Review all the instructions in this manual.

■ GENERAL

Problem	Cause	Action
No power supply	Is the power plug disconnected?	Insert the plug into the AC outlet (refer to page 8).
No picture or sound	Is the antenna disconnected?	Check the antenna connections (refer to page 8).
	Is the antenna facing in the correct direction?	Aim the antenna in the correct direction.
	Is the input mode (TV, VIDEO-1, 2, 3) set to an incorrect position?	Press TV/VIDEO to set the correct mode (refer to page 11).
	Is the broadcast mode set properly?	Set the correct tuner mode with the MENU buttons (refer to page 11).
	Is the TIME GUARD operating?	Enter the LOCK CODE (refer to page 31).
	Is the TV station the problem?	Watch another channel. If there are no problems with that channel, the TV station is the problem.
Inoperable remote control	Are batteries exhausted?	Replace the batteries (refer to page 9).
	Is the batteries' +/– polarity correct?	Insert the batteries correctly (refer to page 9).
	Is the remote control too far from the TV?	Operate the remote control within approx. 23 ft (7 meters) of the TV.
	Are there any obstructions between the remote control and TV?	Remove any obstructions between the remote control and TV.
	Is the TV/CATV selector set properly?	When operating the TV, set the TV/CATV selector to TV.
	The TV is not receiving remote control commands.	Press POWER on the TV to turn it off, then turn it on again.
The channel cannot be selected	Have the channels been set?	Preset the channels (refer to page 10).
	Is the selected channel guarded?	Press the remote control number buttons to select the channel, then enter the LOCK CODE (refer to page 27).
	Is the TV/CATV selector set properly?	When operating the TV, set the TV/CATV selector to TV.
The power shuts off automatically	Is the SLEEP TIMER set?	Press POWER to turn on the TV again (refer to page 28).
The TV clock is incorrect or the clock has stopped	Was there a power interruption?	Set the clock correctly (refer to page 28).
The timer does not work	Was there a power interruption?	If there is a power interruption, the timer is canceled. Set it again. Also check that the clock is correct (refer to pages 28 to 31).

■ PICTURE

Problem	Cause	Action
Poor colors	Are the COLOR and TINT controls adjusted incorrectly?	Adjust the COLOR and TINT controls (refer to page 18).
	Is THEATER STATUS mode set?	Cancel THEATER STATUS mode (refer to page 18).
	Is it a black and white program?	Change the channel and watch a color program.
Lines or streaks in the picture (interference)	Could there be interference, perhaps from a personal computer, TV, VCR, audio component or radio station?	Move the components apart until the interference is eliminated. Reposition the antenna.
Spotted picture (crosstalk)	Could there be interference, perhaps from a hair dryer, electric cleaner, neon sign, high tension wire, automobile, or motorcycle?	Move the antenna away from the source of interference. Replace the antenna cable with a coaxial cable, which is less prone to interference.
Double pictures (ghost)	Could TV signals be affected by signals reflected, perhaps from mountains or buildings?	Reposition the antenna. Replace with an antenna with better directionality.
Snowy picture (image noise)	Is the external antenna cut or disconnected?	Check the antenna connection (refer to page 8). Position the antenna correctly.
	Has the antenna been turned, perhaps due to a strong wind?	Replace or repair the antenna.
	Is the antenna damaged?	Replace or repair the antenna.
The screen turns blue	Is an empty channel selected?	Select another channel.
	Is NOISE MUTE on?	Turn off NOISE MUTE (refer to page 32).
When a video tape is played, a blue background appears first	Is NOISE MUTE on?	Turn off NOISE MUTE (refer to page 32).
The VCR picture does not appear on the screen	Is the VCR or playback device connected to the TV?	Connect the VCR or playback device to the TV and start playback (refer to page 38).
A black square is covering 80% of the TV screen	Is the Closed Caption Text mode on?	Press CLOSED CAPTION to turn off Text mode (refer to page 34).

■ SOUND

Problem	Cause	Action
Bilingual/stereo broadcasts cannot be heard	Is the MTS mode set correctly?	Set it to STEREO or SAP mode (refer to page 19).

The following are normal occurrences and are not the result of TV malfunctions:
- When you touch the CRT (Cathode Ray Tube: picture tube) surface, you might feel a slight charge of static electricity. This is because the CRT contains static electricity; it does not affect the human body.
- Your TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a still bright image (of a white dress, for example) appears on the screen, the image may be colored. This problem occurs in all CRTs, and when the bright image disappears, the coloration also disappears.

Specifications

Type	: WIDE SCREEN PROJECTION TELEVISION
Reception Standard	: NTSC, BTSC (multi-channel sound)
Received channnels	: VHF 2 to 13, UHF 14 to 69; Sub Mid, Mid, Super, Hyper and Ultra bands (180-channel frequency synthesizer system)
Power source	: 120 V AC, 60 Hz
Power consumption	: Max. 280 W, Avg. 235 W, 3.5 A
Projection tube	: Three 6.7 inch tubes
Screen	: Transparent screen
Screen size	: 55 inch, aspect ratio of 16:9, 48" (W) × 27" (H) = 55" (diagonal)
Audio output	: Front: 10 W + 10 W + 10 W Rear: 10 W + 10 W (with 8 ohm connected)
Speakers	: Round 6.3" speaker × 2, round 4.7" speaker × 1
Antenna terminal	: 75 ohm (VHF/UHF) terminal (F-type connector) × 2 SPLIT OUT terminal × 1
External input (INPUT 1, 2, 3) jacks	: S-VIDEO (except INPUT 3): Y/1Vp-p Positive, 75 ohms (negative sync provided) C/0.286 Vp-p (burst signal), 75 ohms Video: 1 Vp-p, 75 ohms Audio: 500 mV rms (–4 dBs), high impedance
Variable audio output terminal	: More than 0 to 1550 mVrms (+6 dBs), low impedance (400 Hz when modulated 100 %)
Line output terminals	: Video: 1 Vp-p, 75 ohms Audio: 500 mV rms (–4 dBs), low impedance (400 Hz when modulated 100 %)
AV COMPU LINK jacks	: 3.5 mm dia. mini jack × 2
PIP/MAIN/SURROUND AUDIO OUT jack	: 3.5 mm dia. stereo mini jack
Speaker output jacks (Front/Rear)	: Impedance 6 to 8 ohms
External dimensions (W × H × D)	: 50" × 52-3/4" × 27-5/8", 126.8 × 133.2 × 70.0 cm
Weight	: 240 lbs, 109 kg
Accessories	: Remote control unit (RM-C727) × 1 AAA/R03 battery × 2

Design and specifications subject to change without notice.

FOR CANADA, SEE SEPARATE SHEETS FOR WARRNATY/GARANTIE AND JVC AUTHORIZED SERVICE CENTERS IN CANADA.

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1-800-537-5722

Dear customer:
In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-537-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

–JVC

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF US JVC CORP.

FACTORY SERVICE CENTER LOCATIONS

107 Little Falls Road
Fairfield, NJ 07004-2105
(201) 808-9279

1500 Lakes Parkway
Lawrenceville, GA 30243-5357
(404) 339-2522

705 Enterprise Street
Aurora, IL 60504-8149
(708) 851-7855

5665 Corporate Avenue
Cypress, CA 90630-0024
(714) 229-8011

10700 Hammerly Suite 110
Houston, TX 77043
(713) 935-9331

2969 Mapunapuna Place
Honolulu, HI 96819-2040
(808) 833-5828

230 Ellot Street
Ashland, MA 0172-2377
(508) 881-5923

14505 Commerce Way
Miami Lakes, FL 33016-1512
(305) 362-6252

890 Dubuque Avenue
South San Francisco, CA
94080-1804
(415) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS
JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF US JVC CORP.
107 Little Falls Road
Fairfield, NJ 07004-2105

If you ship the product...

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer. Or from the 48 Continental United States call toll free: 800-882-2345.

BT-51011-1
(0495)

FOR CANADA, SEE THE SEPARATE SHEETS FOR WARRANTY/GUARANTIE AND JVC AUTHORIZED SERVICE CENTERS IN CANADA.

LIMITED WARRANTY

JVC
WIDE SCREEN PROJECTION TV

COLOR TV 1-1-2
JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period as shown below.

1. Parts. The lenticular (front) screen is warranted against defects in materials and workmanship for a period of 60 days. Picture tubes are covered for 2 years. All other parts are warranted for a period of 1 year.

2. Labor. For 60 days after the original purchase at retail, JVC will repair or replace, at our option, the lenticular (front) screen if it proves defective. For all other parts JVC will provide the labor for a warranty repair for 1 year.

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:
If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:
Return your products to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 537-5722.
If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

WHAT IS NOT COVERED:
This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation and installation and removal for repair;
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase).

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTIAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

BT-52001-1

JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.

41 Slater Drive
Elmwood Park, New Jersey 07407

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

JVC
JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.
41 Slater Drive, Elmwood Park, N.J. 07407

NV-55H6U-IBA-A Ⓐ1
0795-NK-AB

JVC

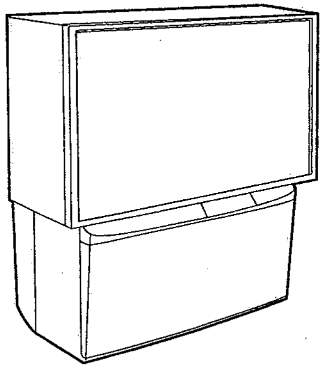
NV-55BH6

WIDE SCREEN PROJECTION TELEVISION

INSTRUCTIONS

Thank you for purchasing this JVC wide screen projection television.
To ensure your complete understanding, please read this manual thoroughly before operation.

- **Safety Precautions** on page 2 and 3



PREPARATION (page 8)
1. Connecting Antenna and Power cord
2. Inserting Batteries into your Remote Control
3. Turning the Power ON/OFF
4. Allocating Stations to Channels
5. Auto Demonstration Mode

BASIC OPERATING PROCEDURE (page 11)
Watching a Television Program
Changing the Picture's Aspect Ratio
Two-picture Screen
MENU selection

SOUND AND PICTURE (page 18)

HANDY CHANNEL SELECTION (page 22)

TIMER OPERATION (page 26)

OTHER FEATURES (page 30)

CONNECTION (page 35)

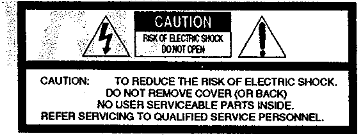
TROUBLESHOOTING (page 40)

For Customer Use:
Enter below the Model No. and Serial No. which are located on the rear of the cabinet. Retain this information for future reference.

Model No. NV-55BH6

Serial No. ______________________

SAFETY PRECAUTIONS



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:
To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

Caution:
Changes or modifications not approved by JVC could void the warranty.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Caution:
When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.

IMPORTANT SAFEGUARDS

CAUTION: Please read and retain for your safety.

This TV set has been engineered and manufactured to assure your personal safety. But *improper use can result in potential electrical shock or fire hazard.* In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing, and follow all warnings and instructions marked on the set.

INSTALLATION

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other).

(POLARIZED-TYPE)

This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug.
Should it still fail to fit, contact your electrician.

2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.

3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

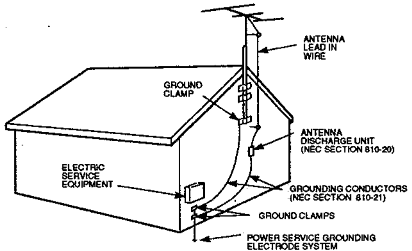
4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.

5 Do not use this TV set near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.

6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit and connection requirements for the grounding electrode.

7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC — NATIONAL ELECTRICAL CODE

8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released. Therefore:
- Never block the bottom ventilation slots of a TV set by placing it on a bed, sofa, rug, etc.
- Never place a TV set in a "built-in" enclosure unless proper ventilation is provided.
- Never cover the openings with a cloth or other material.
- Never place the TV set near or over a radiator or heat register.

9 To avoid personal injury:
- Do not place a TV set on a sloping shelf unless properly secured.
- Use only a cart or stand recommended by the TV set manufacturer.
- Do not try to roll a cart with small casters across thresholds or deep pile carpets.
- Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

USE

10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.

11 Unplug the TV set from the wall outlet before cleaning. Use a slightly damp (not wet) cloth. Do not use liquid or an aerosol cleaner.

12 Never connect an accessory to your TV that has not been specifically designed for the purpose for which you intend to use it. Improper connections can cause fire hazards.

13 For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.

14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.

SERVICE

15 Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
A. When the power cord or plug is damaged or frayed.
B. If liquid has been spilled into the TV set.
C. If the TV set has been exposed to rain or water.
D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
E. If the TV set has been dropped or damaged in any way.
F. When the TV set exhibits a distinct change in performance — this indicates a need for service.

16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.

18 Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.

19 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

20 Note to CATV system installer.
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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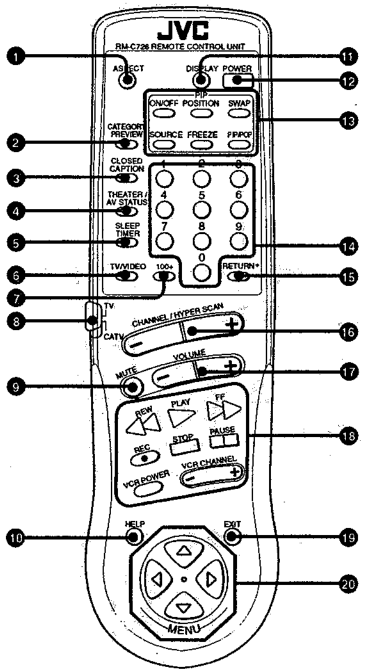
For Optimum Viewing
Sit directly in front of the TV to watch it.
The middle of the screen should be at your eye level. Partially darkening the room improves contrast and picture sharpness.

Location of Remote Control Buttons



JVC
RM-C726 REMOTE CONTROL UNIT
ASPECT
DISPLAY
POWER
PIP
ON/OFF
POSITION
SWAP
CATEGORY PREVIEW
SOURCE
FREEZE
PIP/POP
CLOSED CAPTION
THEATER/AV STATUS
SLEEP TIMER
TV/VIDEO
100+
RETURN+
TV
CATV
CHANNEL/HYPER SCAN
VOLUME
MUTE
REW
PLAY
FF
REC
STOP
PAUSE
VCR POWER
VCR CHANNEL
HELP
EXIT
MENU
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳

①	ASPECT button	p.12
②	CATEGORY PREVIEW button	p.23
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⑦	100+ button	p.11
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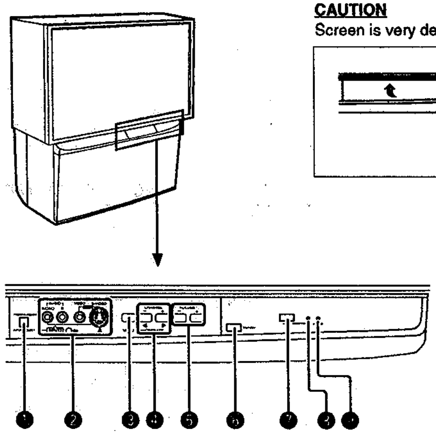
⑨	MUTE button	p.21
⑩	HELP button	p.16
⑪	DISPLAY button	p.30
⑫	POWER button	p.9
⑬	PIP buttons	p.14
⑭	Number buttons	p.11
⑮	RETURN+ button	p.31
⑯	CHANNEL/HYPER SCAN (–/+) button	p.11
⑰	VOLUME (–/+) button	p.11
⑱	VCR operation buttons	p.36
⑲	EXIT button	p.16
⑳	MENU (▼ ▲ ◀ ▶) buttons	p.16

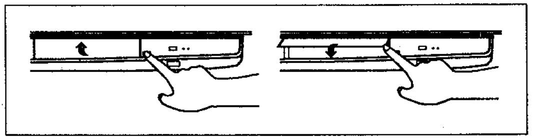
- For the locations of TV buttons and parts, please refer to page 6.

Location of TV buttons and parts

FRONT PANEL



CAUTION
Screen is very delicate. Please handle carefully.



❶ INPUT 3 SELECT switch	p.35
❷ INPUT 3 jacks	p.35
❸ MENU (▼) button	p.6
❹ OPERATE (◀ ▶) / CHANNEL (–/+) buttons	p.6
❺ VOLUME (–/+) buttons	p.6
❻ Door open button	p.6
❼ POWER button	p.9
❽ POWER lamp	p.9
❾ ON TIMER lamp	p.28, 29

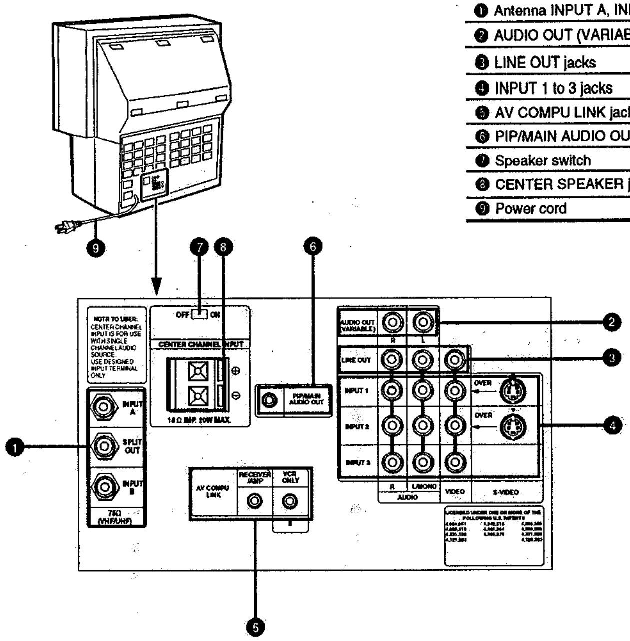
Using the TV Buttons on the console
POWER button: The power turns on or off each time the button is pressed.
VOLUME (–/+) buttons: Adjust the volume.
OPERATE (◀ ▶)/CHANNEL (–/+) buttons: Select the programmed channel. Change the setting of a function selected with the Menu ▼ button.
MENU ▼ button: Displays function lists. While the list is displayed, press the button repeatedly until you get the function you want to adjust.

Notes:

- The front panel does not have a MENU ▲ button or EXIT button. To select menu functions, use the MENU ▼ button. To release MENU mode, use the VOLUME (–/+) buttons.
- You cannot set SET LOCK CODE, CHILD TIMER, or channel guard from the front panel.
- When you activate MENU mode from the front panel, the first page of the FRONT PANEL CONTROL menu is displayed. Other pages are the same as those displayed when operating the remote control (refer to page 16).

REAR PANEL

❶ Antenna INPUT A, INPUT B, SPLIT OUT	p.8
❷ AUDIO OUT (VARIABLE) jacks	p.35
❸ LINE OUT jacks	p.7, 35
❹ INPUT 1 to 3 jacks	p.35
❺ AV COMPU LINK jacks	p.38
❻ PIP/MAIN AUDIO OUT jack	p.35
❼ Speaker switch	p.35
❽ CENTER SPEAKER jacks	p.35
❾ Power cord	p.8



Notes (also see "CONNECTION" on pages 35 to 39):

AUDIO OUT (VARIABLE) jacks:
Output the sound of the picture on the TV.

- The volume can be adjusted using the TV's VOLUME buttons.

LINE OUT jacks:
Output the sound and picture from the TV.

- Video and sound input to INPUT 1 are not output.
- Video that is input to the S-VIDEO jack is not output.
- When connecting any INPUT and LINE OUT jacks to the same VCR, use the INPUT 1 jack. If you use another INPUT jack, the picture will be distorted unless you play the VCR.

INPUT 1, 2, 3 jacks:

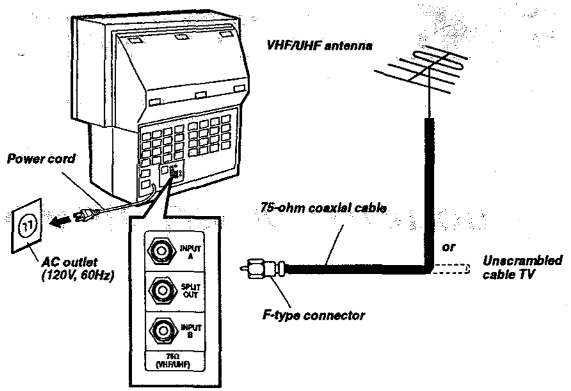
- Connect monaural audio to the L/MONO jack.
- When you are using a VIDEO jack, do not use its corresponding S-VIDEO jack.
- If a JVC video movie camera was used to record a video in squeeze mode, connect an S-VIDEO cable to play it back. The picture is shown in full mode automatically.

Antenna terminal text: See page 8.

Speaker terminal text: See page 35.

1. Connecting Antenna and Power cord

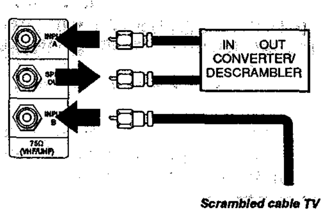
(Example)


VHF/UHF antenna
Power cord
75-ohm coaxial cable
or
Unscrambled cable TV
AC outlet (120V, 60Hz)
F-type connector
INPUT A
SPLIT OUT
INPUT B
75Ω (VHF/UHF)

Notes:
- The power cord has a polarized plug. Therefore, it will only insert one way into the wall outlet. DO NOT DEFEAT THE POLARIZED PLUG. If you have problems, consult your local dealer.
- When the power cord is connected to an AC outlet, the POWER lamp turns red.
- After connecting to antenna or cable TV, use AUTO TUNER SETUP to program available channels.

Converter or Descrambler Connections

(Example)


IN OUT
CONVERTER/ DESCRAMBLER
75Ω (VHF/UHF)
Scrambled cable TV

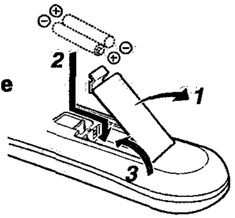
Notes:
- Some cable companies require a converter box to receive all available programs. Others may require it only for subscription or "premium" programming. Consult your local cable company for correct installation.
- The signal input to the INPUT B antenna terminal will be output as is to the SPLIT OUT antenna terminal.
- Use manual programming to set the channels for INPUT B.

2. Inserting Batteries Into Your Remote Control

1 **Raise the latch and remove the cover.**

2 **Insert two batteries into the battery compartment.**

3 **Replace the cover.**



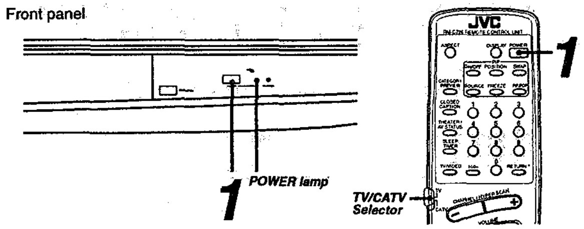
Condition:
- Use two AAA/R03 batteries.

Caution:
- Follow the cautions printed on the batteries.

Notes:
- Battery life is approximately six months to one year depending on frequency of use.
- If the remote control operates erratically, replace the batteries.
- Insert batteries correctly, observing + and – polarities.

If a manufacturer's VCR or CATV converter code has been set:
The set manufacturer's code will be put in memory for a specific time. When you replace the batteries, do so within one minute. If the manufacturer's code is lost, set it again (refer to page 36).

3. Turning the Power ON/OFF


Front panel
1
POWER lamp
TV/CATV Selector
JVC
1

1 **Press POWER.**

POWER

POWER

The POWER lamp lights up.

- To turn off the TV, press POWER again.
  The POWER lamp goes off.

Condition:
- When using the remote control, set the TV/CATV selector to TV.

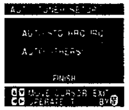
4. Allocating Stations to Channels

— AUTO TUNER SETUP

Allocate stations to channels using AUTO TUNER SETUP.

1 Press MENU ▼ or ▲ repeatedly to select AUTO TUNER SETUP, then press ◀ or ▶ to enter the setup menu.

The AUTO TUNER SETUP menu is displayed.



2 Press MENU ▼ or ▲ to move the cursor to AUTO (STD, HRC, IRC) or AUTO (OTHERS), then press ◀ or ▶ to select it.

Setup starts automatically.

- ●This completes the procedure.
  PROGRAMMING OVER is displayed when setup is complete.

AUTO (STD, HRC, IRC):
Almost all the cable companies use one of the following systems:
- Standard.
- Harmonically Related Carrier.
- Incrementally Related Carrier.

AUTO (OTHERS):
For those other than the above.

Notes:
- If you experience a problem, call your cable company. If they use a different system (not STD, HRC, IRC), repeat step 1 and in step 2 select AUTO (OTHERS).
- For details on menu functions, refer to page 16.
- Press CHANNEL/HYPER SCAN (–/+) to see which channels were set.
- To add a channel to or delete a channel from the AUTO TUNER SETUP, refer to "To set a channel to be scanned" on page 24.

5. Auto Demonstration Mode

— AUTO DEMO

You can view a demonstration of many of this TV's functions. Using auto demonstration mode before operating the TV will make it easier to understand.

1 Press MENU ▼ or ▲ repeatedly to select AUTO DEMO, then press ◀ or ▶.

The demonstration starts.

SUPER COMMAND
JVC
FEATURE
DEMONSTRATION

- ●To stop the demonstration, press any button.

Note:
- This demonstration mode repeats about every six minutes.

Watching a Television Program

—TV/VIDEO, TUNER MODE

1 Press POWER.

The POWER lamp lights up.

2 If video mode (VIDEO-1, 2, 3) has been selected, press TV/VIDEO repeatedly to switch it to AIR (or CABLE).

→TV mode→VIDEO-1→VIDEO-2→VIDEO-3→

3 Press MENU ▼ or ▲ repeatedly to select the ANTENNA, then press ◀ or ▶ to select INPUT A or INPUT B.

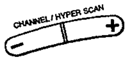
INPUT A ⇆ INPUT B

4 If necessary, press MENU ▼ or ▲ repeatedly to select TUNER MODE, then press ◀ or ▶ to select AIR or CABLE.

AIR ⇆ CABLE

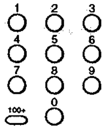
5 Select a channel.

Scan selection



1. Press CHANNEL/HYPER SCAN (–/+).
   +: to scan UP a channel number.
   –: to scan DOWN a channel number.

Direct selection



1. Press a number buttons.
   Example: To select channel 5 (single-digit channel), press 0, and 5.
   Example: To select channel 35 (two-digit channel), press 3, and 5.
   Example: To select channel 115 (three-digit channel), press 100+, 1, and 5.

6 Press VOLUME (–/+).

The level indicator appears.

+: The bars move right and the volume increases.
–: The bars move left and the volume decreases.

7 Press POWER to turn the power off.

The POWER lamp goes off.

TV mode:
CABLE is displayed if you turned off the TV after watching a cable TV broadcast.

Channel display:
The channel number is displayed in light blue for AIR, and in yellow for CABLE.

Note:
- TUNER MODE (AIR or CABLE) is automatically selected during AUTO TUNER SETUP.

CHANNEL/HYPER SCAN (–/+) BUTTON:
The CHANNEL/HYPER SCAN (–/+) button is a two stage button.
Its function changes depending on how long you press it.

NORMAL SCAN UP/DOWN:
Each time you press the button lightly (1st stage), the preset stations are scanned one at a time.

HYPER SCAN UP/DOWN:
When you press the button strongly (2nd stage), stations are scanned rapidly. Only stations allocated to channel numbers are scanned. A station is selected when you release the button.

Notes:
- Only preset channels can be selected with scan selection (refer to page 9).
- The button on the front panel allows NORMAL SCAN UP/DOWN only.

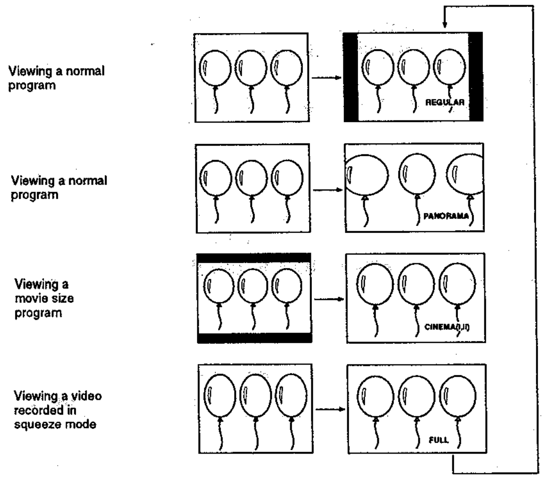
Note:
- You can also use VOLUME (–/+) on the front panel.

Changing the Picture's Aspect Ratio

—ASPECT

You can watch programs with the usual TV picture ratio of 4:3, and 16:9 movie size programs.

1. Press ASPECT repeatedly to change the aspect ratio.


Viewing a normal program
REGULAR
Viewing a normal program
PANORAMA
Viewing a movie size program
CINEMA(I,II)
Viewing a video recorded in squeeze mode
FULL

Note:
- When a video disc player, video movie camera, and other equipment are connected by S-VIDEO cable, the aspect ratio may change automatically when you start playback. Change the aspect ratio manually if necessary.

Note:
- The sides of the picture are slightly stretched.

Note:
- If the subtitles are difficult to read, raise the picture (see page 13).

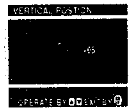
Notes:
- When viewing a video recorded in squeeze mode by a JVC video movie camera, the picture is shown in FULL mode automatically if you use S-VIDEO cable.
- For normal programs, the picture is slightly stretched.

Raising the picture in CINEMA I or CINEMA II
—VERTICAL POSITION

In CINEMA I or CINEMA II mode, if subtitles are not visible, you can raise the picture.

Condition:
- Set the Aspect Ratio to CINEMA I or CINEMA II.

1. Press MENU ▼ or ▲ repeatedly to scroll to VERTICAL POSITION, then press ◀ or ▶ to select it.

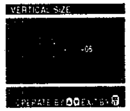

VERTICAL POSITION
OPERATE BY EXIT

2. Press MENU ▼ or ▲ to adjust the vertical position.

●This completes the procedure.
To leave the menu, press EXIT.

—VERTICAL SIZE

1. Press MENU ▼ or ▲ repeatedly to scroll to VERTICAL SIZE, then press ◀ or ▶ to select it.


VERTICAL SIZE
OPERATE BY EXIT

2. Press MENU ▼ or ▲ to adjust the vertical size.

●This completes the procedure.
To leave the menu, press EXIT.

Two-picture Screen

— PIP or POP

Two screens (one large and one small) can be displayed at the same time. While viewing playback from a VCR, you can also watch TV.

Conditions:
- Connect the playback device (for example, VCR) (refer to page 35).
- You can only listen to the sound of the PIP picture by using cordless headphones (not supplied) (refer to page 35).

PIP:
Picture In Picture

POP:
Picture Outside Picture

Notes:
- Two programs in different broadcast modes (CHANNEL, CABLE A, CABLE B) cannot be viewed simultaneously.
- If there is no picture in the MAIN picture frame, a PIP or POP picture will not appear.

To display the PIP or POP picture — ON/OFF

1. Press ON/OFF.

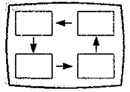
The PIP or POP picture appears.

2. To remove the PIP or POP picture, press ON/OFF again.

The PIP or POP picture disappears.

To change the position of the PIP or POP picture — POSITION

1. Each time you press POSITION, the PIP or POP picture changes position.



To swap the MAIN picture and the PIP or POP picture — SWAP

1. Press SWAP.

The MAIN picture and PIP or POP picture swap places.

To switch the PIP or POP picture input —SOURCE

1. Press SOURCE repeatedly to select the desired input.

→TV mode→VIDEO-1→VIDEO-2→VIDEO-3

TV mode:
When watching TV, the channel number is displayed on the screen.

To freeze the PIP or POP picture — FREEZE

1. Press FREEZE.

The PIP or POP picture pauses.

- To restore the regular picture, press FREEZE again.

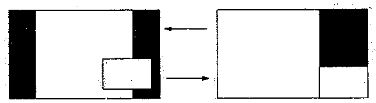
Notes:
- If FREEZE is pressed while there is no PIP or POP picture, the PIP or POP picture will appear and then pause.
- If the PIP or POP picture is paused, pressing SWAP, SOURCE, or SIZE unfreezes it.

Selecting PIP or POP — PIP / POP button

Condition:
- Set the Aspect Ratio to REGULAR (see page 12).

1. Press PIP / POP.

The small picture changes position.



MENU selection

—MENU, HELP, EXIT

Most television functions can be operated from the remote control.
When using menus, you can view screens explaining each function.

1. Press MENU ▼ or ▲.

A list of functions is displayed.

Note:
- From here on, "MENU" will be omitted from ▼ ▲ ◀ ▶ button names.

2. Press ▼ or ▲ repeatedly to select the function you want.

The function you have selected is displayed in yellow.

3. Press ◀ or ▶ to enter the setting screen.

The setting screen of the selected function is displayed.

Note:
- To cancel the operation, press EXIT.

4. Following the on-screen instructions, use ▼ and ▲ to move the cursor and ◀ or ▶ to make settings.

- When you complete this procedure, press EXIT to leave the menu screen.

Viewing explanations of functions

—HELP

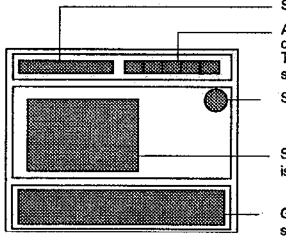
1. Press HELP during menu operations.

The screen shows an explanation of the currently selected function or tells you how to make settings.

Note:
- If you press HELP before making settings (when the function name is displayed in yellow), the help screen explains the function. If you press HELP while making settings, the screen tells you how to make settings.

2. To return to the original screen, press HELP again.

MENU Screens



Shows group titles

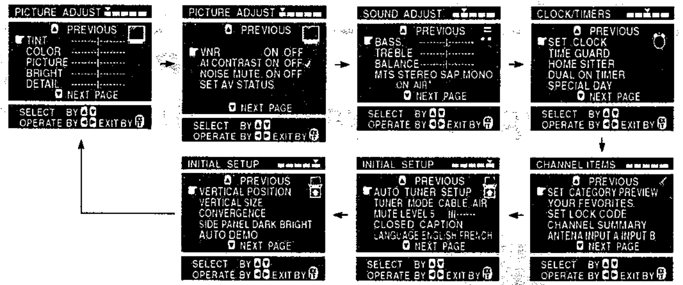
A different color is used to indicate the currently selected group.
Title characters and icon are displayed in the same color.

Shows the group icon for each title.

Shows function names. The selected function is displayed in yellow.

Gives help. Read this as you make your settings.

MENU Screen List

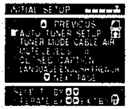

PICTURE ADJUST
PREVIOUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
PICTURE ADJUST
PREVIOUS
VNR ON OFF
AI CONTRAST ON OFF ✓
NOISE MUTE ON OFF
SET AV STATUS
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
SOUND ADJUST
PREVIOUS
BASS
TREBLE
BALANCE
MTS STEREO SAP MONO
ON AIR
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
CLOCK/TIMERS
PREVIOUS
SET CLOCK
TIME GUARD
HOME SITTER
DUAL ON TIMER
SPECIAL DAY
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
CHANNEL ITEMS
PREVIOUS
SET CATEGORY PREVIEW
YOUR FEVORITES
SET LOCK CODE
CHANNEL SUMMARY
ANTENA INPUT A INPUT B
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
INITIAL SETUP
PREVIOUS
AUTO TUNER SETUP
TUNER MODE CABLE AIR
MUTE LEVEL 5
CLOSED CAPTION
LANGUAGE ENGLISH FRENCH
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY
INITIAL SETUP
PREVIOUS
VERTICAL POSITION
VERTICAL SIZE
CONVERGENCE
SIDE PANEL DARK BRIGHT
AUTO DEMO
NEXT PAGE
SELECT BY
OPERATE BY EXIT BY

Changing the Menu to French

— LANGUAGE

Most of the functions of this TV are selected while watching the menus.
You can change the language of the menus into French.

1. Press the MENU buttons to scroll to LANGUAGE.



2. Press ◀ or ▶ to select the language.

- This completes the procedure.
  To leave the menu, press EXIT.

Adjusting the TV to Room Conditions

—THEATER/AV STATUS

Adjust the picture instantly to suit the program you are watching and the room you are in.

1. Press THEATER/AV STATUS repeatedly to select the mode.

THEATER→BRIGHT ROOM→CHOICE→RESET

●The picture changes to the selected mode.
The display disappears automatically after a few seconds.

THEATER:
- Makes the picture softer and deeper. Darken the room when viewing to get the best effect.
- TINT, COLOR, PICTURE, BRIGHT, and DETAIL sliding scales are set to the center.

BRIGHT ROOM:
- Suitable for watching in a bright room.
- PICTURE is set to maximum.

CHOICE:
- Refer to page 20.

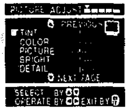
RESET:
- TINT, COLOR, PICTURE, BRIGHT, and DETAIL are set to the center.

Adjusting the Picture

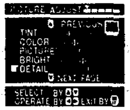
—TINT, COLOR, PICTURE, BRIGHT, DETAIL, VNR, NOTCH

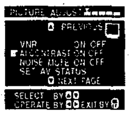
Adjust the picture to suit the program and room brightness, as you like.

1. Press the MENU buttons to display the picture adjustment screen.


PICTURE ADJUST
PREVIOUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

2. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to set its level (or switch it ON/OFF).


PICTURE ADJUST
PREVIOUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY


PICTURE ADJUST
PREVIOUS
VNR ON OFF
AI CONTRAST ON OFF
NOISE MUTE ON OFF
SET AV STATUS
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

●This completes the procedure.
To leave the menu, press EXIT.

Notes:
- There are two pages for picture adjustment.
- For NOISE MUTE, refer to page 21, and for SET AV STATUS, page 20.

Note:
- For details on menu operations, refer to page 16.

Restoring factory settings:
Press THEATER/AV STATUS repeatedly to select RESET.

Note:
- The selected item is displayed in yellow.

VNR:
Video Nose Reduction

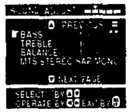
AI CONTRAST:
Automatically adjusts the contrast to suit the brightness of the picture you are viewing.

Adjusting the Sound

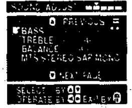
—BASS, TREBLE, BALANCE

Adjust the sound to suit the program and room conditions, if necessary.

1. Press the MENU buttons to display the sound adjustment screen.


SOUND ADJUST
PREVIOUS
BASS
TREBLE
BALANCE
MTS STEREO SAP MONO
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

2. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to set it.


SOUND ADJUST
PREVIOUS
BASS
TREBLE
BALANCE
MTS STEREO SAP MONO
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

●This completes the procedure.
To leave the menu, press EXIT.

Note:
- For MTS, refer to "Listening to Stereo or Bilingual Broadcasts" on this page.

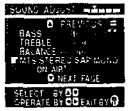
Listening to Stereo or Bilingual Broadcasts

—MTS

Enjoy music and sports programs in stereo or listen to bilingual broadcasts in either language.

1. Press the MENU buttons to scroll to MTS.

"←ON AIR" indicates the sound type in use for the current program.


SOUND ADJUST
PREVIOUS
BASS
TREBLE
BALANCE
MTS STEREO SAP MONO
ON AIR
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

2. Press ◀ or ▶ to select the mode you want (STEREO, SAP, MONO).

●This completes the procedure.
To leave the menu, press EXIT.

MTS:
Multichannel Television Sound

Notes:
- MTS has no effect on normal sound broadcasts.
- MTS may not function normally while you are watching cable TV.

STEREO:
Stereo audio program

SAP:
Second Audio Program (for bilingual programs)

MONO:
Use this option when there is a lot of noise.

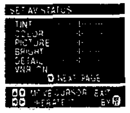
Storing Picture/Sound Adjustments

— SET AV STATUS

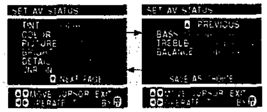
Memorize picture/sound adjustments and use them later to enhance the program being watched.

1. Press the MENU buttons to select SET AV STATUS.

The SET AV STATUS menu appears.


SET AV STATUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
VNR ON
NEXT PAGE
MOVE CURSOR EXIT
OPERATE IT BY

2. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to set it (or switch it ON/OFF).


SET AV STATUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
VNR ON
NEXT PAGE
MOVE CURSOR EXIT
OPERATE IT BY
SET AV STATUS
PREVIOUS
BASS
TREBLE
BALANCE
SAVE AS CHOICE
MOVE CURSOR EXIT
OPERATE IT BY

3. Press ▼ to move the cursor to SAVE AS CHOICE, then press ◀ or ▶ to select it.

- ●The setting is stored and the MENU screen returns.
  To leave the menu, press EXIT.

Note:

- Pressing ▼ while at NOTCH displays the sound adjust menu.
  Pressing ▲ while at BASS displays the picture adjust menu.

To recall stored picture and sound settings.

1. Press THEATER/AV STATUS repeatedly to select CHOICE.

$$\text{THEATER} \rightarrow \text{BRIGHT ROOM} \rightarrow \text{CHOICE} \rightarrow \text{RESET} \rightarrow \text{THEATER}$$

- ●The television changes to the stored settings.
  The display disappears automatically after a few seconds.

Muting the Sound

—MUTE, MUTE LEVEL

You can mute the volume completely (to 0), or to a preset level.
Muting is convenient when you answer the phone or when you need to talk to someone.

1. Press MUTE.

The volume is set to a preset level and "MUTE" appears on the screen.

- ●Pressing it again restores the volume.

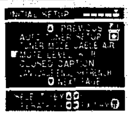
Notes:

- Muting can also be canceled by pressing VOLUME (–/+).
- If the volume is already lower than the preset mute level, pressing MUTE sets the sound to "0".

To set the mute level

— MUTE LEVEL

1. Press the MENU buttons to scroll to MUTE LEVEL.


INITIAL SETUP
PREVIOUS
AUTO TUNER SETUP
TUNER MODE CABLE AIR
MUTE LEVEL
CLOSED CAPTION
NEXT PAGE

2. Press ◀ or ▶ to set the mute level.

- ●This completes the procedure.
  To leave the menu, press EXIT.

Learning Your Favorite Channels

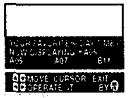
— YOUR FAVORITES

This TV automatically memorizes the channel being received. Use this function to list the three most frequently watched channels and then select one from this list.

Condition:

- The built-in clock must be set (refer to page 26).

1. Press the MENU buttons to select YOUR FAVORITES.


MOVE CURSOR EXIT
OPERATE IT BY
A05 A07 B11

Notes:

- Two sets of your favorite channels are stored for each time period: DAYTIME and EVENING.
  DAYTIME : 4:00 am to 5.59 pm
  EVENING : 6:00 pm to 3:59 am
- If the clock is not working, this function is not activated.
- If there is a power interruption, stored channels are erased.

2. Press ▼ or ▲ to scroll to the channel you want, then press ◀ or ▶ to select it.

●The channel you selected appears and the display disappears.

Notes:

- Each channel appears for a few seconds.
- If you select this function when no channels are stored, "NOT ACTIVE" is displayed.

Selecting a Channel by Category

— CATEGORY PREVIEW

There are six categories. You can set six channels for each category.

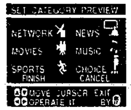
Setting Procedure

1. If necessary, select the broadcast mode for the channels you will set (ANTENNA A or B and AIR or CABLE).

To select the broadcast mode:
Refer to page 11 "Watching a television program", steps 3 and 4.

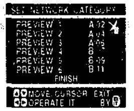
2. Press the MENU buttons to select SET CATEGORY PREVIEW.

The six categories are displayed.


SET CATEGORY PREVIEW
NETWORK
NEWS
MOVIES
MUSIC
SPORTS
CHOICE
FINISH
CANCEL
MOVE CURSOR EXIT
OPERATE IT BY

3. Press ▼ or ▲ to scroll to the category you want, then press ◀ or ▶ to select it.

The channel setting menu is displayed.


SET NETWORK CATEGORY
PREVIEW 1 A 02
PREVIEW 2 A 04
PREVIEW 3 A 06
PREVIEW 4 B
PREVIEW 5 B 09
PREVIEW 6 B 11
FINISH
MOVE CURSOR EXIT
OPERATE IT BY

4. Press the MENU buttons to make the settings.

1. Press ▼ or ▲ to select the category position.
2. Press ◀ or ▶ to select a channel for the position.
3. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

To continue setting other channels:

- To set in the same category, repeat 1 and 2 of step 4.
- To set in a different category, repeat steps 3 and 4.

Note:

- A channel which has been locked using CHANNEL GUARD cannot be set (refer to page 25).

5. Press ▼ or ▲ to move the cursor to FINISH, then press ◀ or ▶ to save your category selections.

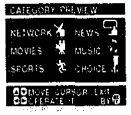
●This completes the procedure.
The settings are stored and the display disappears.

If you select CANCEL:
All the channel settings for all the categories are canceled.

To select a set channel

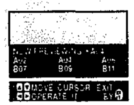
1. Press CATEGORY PREVIEW.

The six categories are displayed.


CATEGORY PREVIEW
NETWORK
NEWS
MOVIES
MUSIC
SPORTS
CHOICE
MOVE CURSOR EXIT
OPERATE IT BY

2. Press ▼ or ▲ to scroll to the category you want, then press ◀ or ▶ to select it.

A list of channels is displayed.


A02 A04
B07 B09 B11
MOVE CURSOR EXIT
OPERATE IT BY

Note:

- Each set channel appears for a few seconds.

3. Press ▼ or ▲ to scroll to the channel you want, then press ◀ or ▶ to select it.

●The channel you selected appears and the display disappears.

Checking and Setting Channel Status

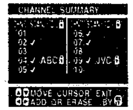
—CHANNEL SUMMARY

View a summary of the channel settings and then change the scanned channels, station ID, and channel guarding.

To view the settings

1. Press the MENU buttons to select CHANNEL SUMMARY.

The CHANNEL SUMMARY menu is displayed and you can view the current settings. From this menu, you can make these settings.



SCAN:
Turn scanning on or off for the selected channel by pressing CHANNEL/HYPER SCAN (–/+).
Channels that have stations are marked with ✓.
Channels allocated stations during AUTO TUNER SETUP are also marked with ✓.

ID:
Set a station name of up to 4 characters.
You can set station names for up to 50 channels.

🔒:
Channels that you can not watch without inputting the LOCK CODE.

To set a channel to be scanned

Choose which the channels you can select using the CHANNEL/HYPER SCAN (–/+) button. You can also delete channels selected during AUTO TUNER SETUP.

Condition:
- You must display the CHANNEL SUMMARY menu to select the channel you want to set.

1. Press ◀ or ▶ to set or delete a channel.

Scannable channels are marked with ✓.

●This completes the procedure.
To leave the menu, press EXIT.

Note:
- To select a channel from the CHANNEL SUMMARY menu, use CHANNEL/HYPER SCAN (–/+).
Each time you press the button lightly (1st stage), the next channel is selected. When you press the button strongly (2nd stage), the cursor moves to the next scannable channel.

To set other channels:
Use CHANNEL/HYPER SCAN (–/+) to move the cursor to the channel you want to set and repeat step 1.

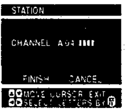
To set station IDs

This procedure displays a four-character station name with the channel number.

Condition:
- You must display the CHANNEL SUMMARY menu to select the channel you want to set.

1. Press ▼ or ▲ to scroll to the ID row. Press ◀ or ▶ to enter the ID setting menu.

The station ID setting menu is displayed.



Notes:
- The station ID is displayed when a channel is selected and when YOUR FAVORITES or CATEGORY PREVIEW is selected.
- Channels for which station IDs have been set are automatically scannable. When you delete a preset channel from scanning, its station ID is also cleared automatically.

2. Press ◀ or ▶ to select the character, then press ▼ to enter it.

When you enter one character, the cursor moves to the next position. Repeat step 2 to enter four characters.

●This completes the procedure.
Select FINISH to return to the CHANNEL SUMMARY menu.
To leave the menu, press EXIT.

To set other channels:
Use CHANNEL/HYPER SCAN (–/+) to move the cursor to the channel you want to set and repeat Steps 1 and 2.

To set channel guarding (CHANNEL GUARD)

This locks channels so they cannot be watched without inputting the lock code.

Condition:
- You must display the CHANNEL SUMMARY menu to select the channel you want to lock.

1. Press ▼ or ▲ to move the cursor to the 🔒 row, then press 0.

Guarded channels are marked with 🔒.

●This completes the procedure.
To leave the menu, press EXIT.

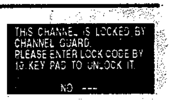
Notes:
- The LOCK CODE is the same as that of the CHILD TIMER. The LOCK CODE is "000" when the TV is shipped from factory and after a power interruption.
- A guarded channel cannot be assigned to CATEGORY PREVIEW, DUAL ON TIMER, or HOME SITTER.

To lock other channels:
Press CHANNEL/HYPER SCAN (–/+), move the cursor to the channel you want to set, and repeat step 1.

To view guarded channels

1. Press the number buttons to select the guarded channel.

The display appears requesting your LOCK CODE.



THIS CHANNEL IS LOCKED BY CHANNEL GUARD.
PLEASE ENTER LOCK CODE BY 10 KEY PAD TO UNLOCK IT.
NO ---

Note:
- Guarded channels cannot be selected using CHANNEL/HYPER SCAN (–/+).

2. Press the number buttons to input the lock code.

●The display disappears and the channel you selected appears.

If the wrong LOCK CODE is entered:
"INVALID LOCK CODE." is displayed and the channel remains unchanged.

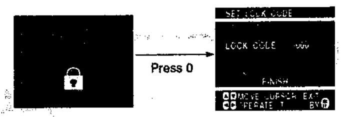
If you forget the LOCK CODE:
Set another lock code.

To set the LOCK CODE

— SET LOCK CODE

This procedure sets the lock code, which is used for the CHILD TIMER and for guarded channels.

1. Press the MENU buttons to select SET LOCK CODE.
   The lock symbol appears.
2. Press 0 before the symbol disapears.
   The SET LOCK CODE menu is displayed.
3. Press ◀ or ▶ to select the number, then press ▼.
   Repeat step 3 to set a 3-digit LOCK CODE.
4. Press ▼ to move the cursor to FINISH, then press ◀ or ▶ to select it.



●This completes the procedure. To leave the menu, press EXIT.

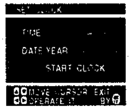
Setting the Clock

— SET CLOCK

The TV has a built-in clock which displays the current time on the screen. The timer functions do not work if this clock stops.

1. Press the MENU buttons to select SET CLOCK.

The SET CLOCK menu is displayed.



2. Press ▼ or ▲ to scroll, then press ◀ or ▶ to set the current time and date.

3. Press ▼ to scroll to START CLOCK, then press ◀ or ▶ to start the clock.

"THANK YOU" is displayed and the display disappears.

Notes:

- If there is a power interruption, the clock will stop. However, if the power interruption lasts only a few minutes, the clock will be slow by the number of minutes the power was cut off. In this case, set the clock again.
- The clock is in 12-hour time.

If a timer function is selected without setting the clock:
"POWER INTERRUPTED WOULD YOU SET CLOCK FIRST?" appears on the screen.
If you select YES, the SET CLOCK menu is displayed. Set the clock.
Once the clock is set, the display returns to timer setting mode and you can set the timer.
If you select NO, timer setting mode ends and a message appears telling you that the timer cannot be set.

Sleep Timer Operation

— SLEEP TIMER

The TV will turn off even if you fall asleep while watching it.

Condition:
- The built-in clock must be set (see above).

1. Press SLEEP TIMER to set the duration.

Each time you press SLEEP TIMER, the duration increases 15 minutes.

0→15→30→45→60→75→90→— — — —→180 (→0)

Notes:

- After the SLEEP TIMER turns off the TV, its setting is canceled.
- If the TV is turned off or if there is a power interruption, the SLEEP TIMER is canceled.
- The SLEEP TIMER can be set up to 180 minutes from the current time.
- If the clock is not working, the SLEEP TIMER cannot be set.
- 20 seconds prior to turning off the TV, "GOOD NIGHT!! PUSH SLEEP TIMER BUTTON TO EXTEND" is displayed on the screen. If you press SLEEP TIMER while this message is on the screen, the duration is extended 15 minutes.

Guarding the channel

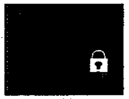
— TIME GUARD

If the clock is set, you can lock channels so that viewers must enter a LOCK CODE to view them.

Condition:
- The built-in clock must be set.

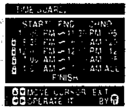
1. Press the MENU buttons to select TIME GUARD.

The lock symbol is displayed.



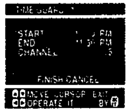
2. Press 0 before the symbol disappears.

The TIME GUARD list is displayed.



3. Press ▼ or ▲ to scroll to a position, then press ◀ or ▶ to select it.

The TIME GUARD set menu is displayed.



4. Press the MENU buttons to make each setting.

Press HELP for an explanation of how to make settings.
The TIME GUARD list screen returns.

5. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

●This completes the procedure.
To leave the menu, press EXIT.

To view guarded channels

1. Press the number buttons to select the channel.

The display requests your LOCK CODE.

2. Press the number buttons to input the LOCK CODE.

●The display disappears and the channel you selected appears.

Notes:

- The clock must be working to set TIME GUARD.
- Guarded channels cannot be selected with CHANNEL/HYPER SCAN (–/+)

Notes:

- The LOCK CODE is the same as that of channel guard. The LOCK CODE is "000" when shipped from the factory, and after a power interruption.
- Guarded channels cannot be selected with CHANNEL/HYPER SCAN (–/+)

If the wrong LOCK CODE is entered:
"INVALID LOCK CODE." is displayed and the channel remains unchanged.

If you forget the LOCK CODE:
Set another LOCK CODE (refer to page 25).

Turning the TV ON/OFF at a set time, every day

— HOME SITTER

The TV turns on to a set channel at a set time, and turns off at a set time.

Condition :
- The built-in clock must be set (refer to page 26).

Notes:
- If there is a power interruption, the HOME SITTER setting is canceled.
- If the clock is not working, the HOME SITTER cannot be set.

1. If necessary, select the broadcast mode (ANTENNA A or B, and AIR or CABLE).

2. Press the MENU buttons to select HOME SITTER.

The HOME SITTER menu is displayed.

3. Press the MENU buttons to make each setting.

1. Press ◀ or ▶ to set the times for the TV to turn on and off.
2. Press ▼ to scroll, then press ◀ or ▶ to set the channel.
3. Press ▼ to scroll, then press ◀ or ▶ to select YES.

Note:
- The HOME SITTER cannot be set for channels locked by CHANNEL GUARD (refer to page 25).

4. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

The settings are stored and the menu screen returns.

●This completes the procedure. To leave the menu, press EXIT.
The ON TIMER lamp lights up.

Timer for desired programs

— DUAL ON TIMER

The TV turns on at a set time, at a set channel. Up to two programs can be set.

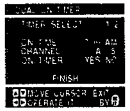
Condition:
- The built-in clock must be set (refer to page 26).

Notes:
- After the DUAL ON TIMER turns on the TV, its setting is canceled.
- If there is a power interruption, the DUAL ON TIMER is canceled.
- If no operation is done within two hours after the DUAL ON TIMER turns on the TV, the TV will turn off automatically.
- If the clock is not working, the DUAL ON TIMER cannot be set.

1. If necessary, select the broadcast mode (ANTENNA A or B, and AIR or CABLE).

2. Press the MENU buttons to select DUAL ON TIMER.

The DUAL ON TIMER menu is displayed.



3. Press the MENU buttons to make each setting.

1. Press ◀ or ▶ select Timer 1 or 2.
2. Press ▼ to scroll, then press ◀ or ▶ to select the time for the television to turn on.
3. Press ▼ to scroll, then press ◀ or ▶ to select the channel.
4. Press ▼ to scroll, then press ◀ or ▶ to select YES.

4. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

The settings are stored and the menu screen returns.

●This completes the procedure. To leave the menu, press EXIT.
The ON TIMER lamp lights up.

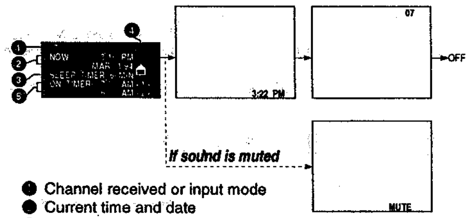
Note:
- The DUAL ON TIMER cannot be set for channels locked by CHANNEL GUARD.

Displaying TV status

— DISPLAY

Displays the timer settings, current time, and channel number.

1. Press DISPLAY repeatedly.


NOW
PM
MAR
SLEEP TIMER
ON TIMER
AM
AM
3:22 PM
07
OFF
If sound is muted
MUTE

① Channel received or input mode
② Current time and date
③ SLEEP TIMER status
④ Appears when the HOME SITTER is on
⑤ DUAL ON TIMER status

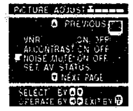
Notes:
- If the clock is not working, "CLOCK NOT SET" is displayed instead of the current time.
- Dates of SPECIAL DAYs are shown on the second page.

Turning empty channels blue

— NOISE MUTE

Change picture noise that appears on empy channels into a quiet solid blue screen.

1. Press the MENU buttons to select NOISE MUTE.


PICTURE ADJUST
PREVIOUS
VNR ON OFF
AI CONTRAST ON OFF
NOISE MUTE ON OFF
SET AV STATUS
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

2. Press ◀ or ▶ to select ON or OFF.

- This completes the procedure.
  To leave the menu, press EXIT.

Returning to a Specific Channel

— RETURN+

This function allows you to return to a previously selected channel (see below). If the channel you are watching is the selected channel, use this function to return to it after checking other channels (this is especially useful during commercials).

1. Press RETURN+ button.

The TV returns to the RETURN CHANNEL.

To select a RETURN CHANNEL.

1. Select a channel.

2. Press and hold RETURN+ for more than three seconds.

"RETURN CHANNEL PROGRAMMING" is displayed.

To cancel a RETURN CHANNEL

1. Press and hold RETURN+ for more than three seconds.

"RETURN CHANNEL CANCELED" is displayed.

Note:
- When you turn off the power, or select another channel with the number keys, any selected RETURN CHANNEL is canceled.

To return to the previous channel

If no RETURN CHANNEL is selected, pressing RETURN+ returns to the last channel viewed.

1. Press RETURN+.

The last and current channels alternate.

Viewing Closed Captions

— CLOSED CAPTION

Use this function to watch closed captions of a TV broadcast, a video cassette, or a video disc.

Condition:
- Tune the TV to a program or video source which contains closed captions.

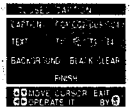
1. Press CLOSED CAPTION repeatedly.

→CLOSED CAPTION→TEXT→OFF

To set CAPTION mode and TEXT mode

1. Press the MENU buttons to select CLOSED CAPTION.

The CLOSED CAPTION menu is displayed.


CLOSED CAPTION
CAPTION
TEXT
BACKGROUND BLACK CLEAR
FINISH
MOVE CURSOR EXIT
OPERATE IT BY

2. Press the MENU buttons to make each setting.

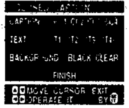
1. Press ◀ or ▶ to set CAPTION mode.
2. Press ▼ to scroll, then press ◀ or ▶ to select TEXT.
3. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.
The settings are stored and the menu screen returns.

- ●This completes the procedure.
To leave the menu, press EXIT.

To select the closed captions' BACKGROUND

1. Press the MENU buttons to select CLOSED CAPTION.

The CLOSED CAPTION menu is displayed.


CLOSED CAPTION
CAPTION
TEXT T1 T2 T3 T4
BACKGROUND BLACK CLEAR
FINISH
MOVE CURSOR EXIT
OPERATE IT BY

2. Press the MENU buttons to make each setting.

1. Press ▼ to scroll to BACKGROUND, then press ◀ or ▶ to select BLACK or CLEAR.
2. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.
The settings are stored and the menu screen returns.

- ●This completes the procedure.
To leave the menu, press EXIT.

Notes:
- Closed captions may not be displayed correctly for cable TV or a video source with copy guard.
- If poor reception affects the display of closed captions, press CLOSED CAPTION again, or retune the channel.

TEXT:
For teletext
If a black background appears while watching video tapes and discs without closed captions, turn this function off.

About CAPTION/TEXT mode:
Press HELP in step 1 or 2 to show the help screen.

Messages for Special Days

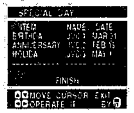
— SPECIAL DAY

Displays a reminder on a special day (such as a birthday or anniversary).

Condition:
- The built-in clock must be set (refer to page 26).

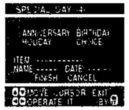
1. Press the MENU buttons to select SPECIAL DAY.

The SPECIAL DAY list is displayed.


SPECIAL DAY
ITEM NAME DATE
ANNIVERSARY
FINISH
MOVE CURSOR EXIT
OPERATE IT BY

2. Press ▼ or ▲ to scroll to an item, then press ◀ or ▶ to select it.

The SPECIAL DAY setting screen is displayed.


SPECIAL DAY
ANNIVERSARY BIRTHDAY
HOLIDAY CHOICE
ITEM
NAME DATE
FINISH CANCEL
MOVE CURSOR EXIT
OPERATE IT BY

3. Press ▼ or ▲ to scroll to an item (ANNIVERSARY, HOLIDAY, BIRTHDAY, CHOICE), then press ◀ or ▶ to select it.

4. Press the MENU buttons to make each setting.

1. Press ◀ or ▶ to select a character, then press ▼ to enter it.
When you enter a character, the cursor moves to the next one. Repeat until you have a five-character name.
2. Press ◀ or ▶ to set the month and day.
3. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.
The settings are stored and the SPECIAL DAY list returns.

5. Press ▼ to scroll to FINISH, then press ◀ or ▶ to select it.

- ●This completes the procedure.
To leave the menu, press EXIT.

If you select CHOICE:
You can make your own message. Scroll using ▼ or ▲ and press ◀ or ▶ to select a character. Your message can be up to 11 characters long.

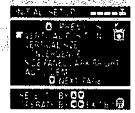
Changing the Side Panel Brightness

— SIDE PANEL

In REGULAR mode, the brightness of the dark panels on the sides can be changed.

Condition:
- Set the Aspect Ratio to REGULAR (refer to page 12).

1. Press the MENU buttons to scroll to SIDE PANEL.



2. Press ◀ or ▶ to select DARK or BRIGHT.

●This completes the procedure.
To leave the menu, press EXIT.

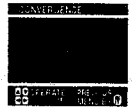
Convergence Adjustment

— CONVERGENCE

Use this feature to adjust the color if it is irregular near the edges.

1. Press the MENU buttons to scroll to CONVERGENCE, then press ◀ or ▶ to select it.

2. Press ▼ or ▲ to scroll to RED or BLUE, then press ◀ or ▶ to select it.



3. Press the MENU buttons to adjust the convergence.

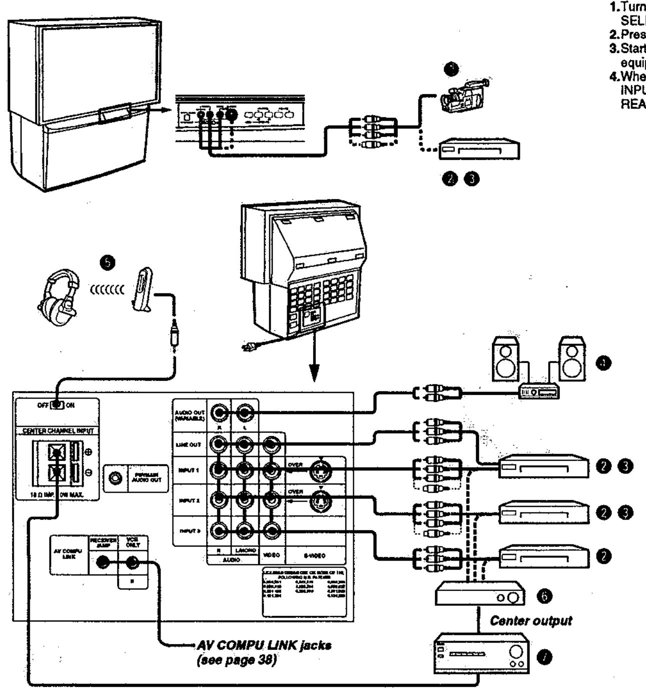
●This completes the procedure.
To leave the menu, press EXIT.

Connecting External Equipment

- CONNECTION DIAGRAM

Conditions:
- Before connecting equipment, disconnect the TV's power cord from the AC outlet.
- To view a video played back by a connected device such as a VCR, press TV/VIDEO (see step 2 on page 11).

❶ Video Camera
❷ VCR
❸ S-VHS VCR or camera
❹ Audio component
❺ Cordless headphones
❻ Surround Processor
❼ Audio Amplifier



Notes:
- See the "Notes" on page 7 and the operating instructions of the external equipment.
- Interference from external equipment may cause picture quality to deteriorate. If picture noise occurs, turn OFF equipment that you are not using or move connected devices further apart.
- Connect the video signal of an S-VHS VCR to the S-VIDEO jack.
- To view video input from external equipment connected to the INPUT 3 jacks on the front panel:
  1. Turn the front panel INPUT 3 SELECT switch to FRONT(▬).
  2. Press TV/VIDEO to select VIDEO-3.
  3. Start playback on the external equipment.
  4. When you are finished, turn the INPUT 3 SELECT switch back to REAR (▬).

Using the TV's remote control to operate a CATV converter and VCR — TV/CATV SELECTOR

The remote control can be used to operate a CATV converter and VCR.

Condition:
- Enter the VCR and CATV converter manufacturer's codes into the remote control.

1. Set the TV/CATV selector to CATV.

CATV converter-controllable buttons:
POWER, CHANNEL/HYPER SCAN (–/+), number buttons, 100+, RETURN$^+$ (depending on the type of CATV encoder, the 100+ and RETURN$^+$ buttons may work as the ENTER button).

VCR-controllable buttons:
REW, PLAY, FF, REC, STOP, PAUSE, VCR POWER, VCR CHANNEL

Setting the manufacturer's code

1. Press POWER (or VCR POWER) and the RETURN$^+$ at the same time.

2. Use the number buttons to input the manufacturer's code, then press RETURN$^+$.

- ●This completes the procedure.
  Test the remote control.

Note:
- When shipped, the remote control is set to operate a JVC VCR and manufacturer's code "000" CATV converter.

To replace the batteries:
The set manufacturer's code will be in memory only for a specific time. When you replace the batteries, do so within one minute (refer to page 9).

Notes:
- The VCR can be operated regardless of the TV/CATV setting.
- Depending on the VCR or CATV converter, a few buttons may not work.

To set the CATV converter:
In step 1, press POWER and RETURN$^+$ at the same time.

To set the VCR:
In step 1, press VCR POWER and RETURN$^+$ at the same time.

Note:
- In the manufacturer's code table, if a manufacturer has several codes, try each one until you find the one that works.

Manufacturer's code table (CATV converter)

Manufacturer	Manufacturer's Code	Manufacturer	Manufacturer's Code	Manufacturer	Manufacturer's Code
ABC	007 011 013 017	MOVIE TIME	156	SPRUCER	021 307
ANTRONIX	207	NSC	063 070 156	STANDARD COMPONENTS	096 155
ARCHER	153 207	OAK	007 019 248	STARCOM	003 015 047
CABLE STAR	056	PANASONIC	021 107	STARGATE	015 040
CENTURY	153	PARAGON	000	SYLVANIA	001
CITIZEN	153	PHILIPS	025 027 029 030 031 060 290	TANDY	258
COLOUR VOICE	025 031	PHILIPS ECG	242	TEXSCAN	001 096
COMTRONICS	040 060	PIONEER	023 144	TOCOM	012 013 059
EASTERN	002	PULSAR	000	TOSHIBA	000
GARRARD	153	RCA	021	TV86	063
GC ELECTRONICS	056	REALISTIC	207	UNICA	153 207
GEMINI	015 070 242	REGAL	020 259 273 279	UNITED ARTISTS	007
GENERAL INSTRUMENT	011 276	REGENCY	002	UNITED CABLE	003
HAMLIN	009 020 034 259 273	REMBRANDT	070	UNIVERSAL	056 153 207
HITACHI	011	RUNCO	000	VIDEOWAY	250
JASCO	153	SAMSUNG	040 144	VIEWSTAR	027 060 063 111 211 258 289
JERROLD	003 011 012 014 015 026 047	SCIENTIFIC ATLANTA	006 008 017 277	ZENITH	000 054
MACOM	033	SIGNAL	015 040	JERROLD	459
MAGNAVOX	027 032	SIGNATURE	011	SCIENTIFIC ATLANTA	460
MEMOREX	000	SL MARX	040	STARCOM	459

Manufacturer's code table (VCR)

Manufacturer	Manufacturer's Code	Manufacturer	Manufacturer's Code	Manufacturer	Manufacturer's Code
AIKO	278	LXI	037	RCA UNIFIED	060
AIWA	000	MAGANAVOX	035 081 103 110 149	REALISTIC	000 035 037 046 047 048 062 066 104 240
AKAI	041 049 053 061 106 242	MARANTZ	035 038 081	RICOH	034
AUDIOVOX	037	WARTA	037	RUNCO	039
BELL&HOWELL	104	MEI	035	SAMSUNG	045 053 240
BROKSONIC	121 184 211 361	MEMOREX	000 035 037 039 046 047 048 104	SANSUI	041 067 082 271
CANON	035 167	MGA	043 061	SANYO	046 047 104
CAPEHART	020	MINOLTA	042 105	SCOTT	121 184 210 212
CARVER	081	MITSUBISHI	061 075 173 214 242	SEARS	035 037 042 046 047 054 057 066 104 105
CCE	278	MITSUBISHI UNIFIED	043	SHARP	048 062
CRAIG	047 240 271	MTC	000 240	SHINTOM	072
CURTIS MATHES	035	MULTITECH	000 072	SONY	011 032 033 034 035
DAEWOO	020 045 087 278	NAD	058	STS	042
DAYTRON	020	NEC	038 040 041 067 082	SYLVANIA	035 043 081 103 110
DYNATECH	000	NIKKO	037	SYMPHONIC	000
EMERSON	000 002 037 061 121 184 208 209 211 212 294 295 361	OPTONICA	048 062	TANDY	000
FISHER	047 054 066 104	PANASONIC	035 225	TATUNG	041
FUNAI	000	PENNEY	035 037 038 040 042 240	TEAC	000 041
GE	035 060 065	PENTAX	042 065 105	TECHNICS	035
GO VIDEO	232 279	PHILCO	035	TEKNIKA	000 035 037
GOLDSTAR	018 037 038	PHILIPS	035 062 081 110	TOTEVISION	037 240
HARMAN/KARDON	038 075	PILOT	037	TOSHIBA	043 045 057 066 210 212
HITACHI	000 041 042 065 105 166	PIONEER	168	UNITECH	240
JCL	035	PIONEER UNIFIED	058 067	VECTOR RESEARCH	038 040
JENSEN	041	PORTLAND	020	VIDEO CONCEPTS	040 061
JVC	041 067 068	PULSAR	039	VIDEOSONIC	240
KENWOOD	041 046 067	QUARTZ	046	YAMAHA	038 041
LLOID	000	QUASAR	035 096	ZENITH	033 034 039
LOGIK	072	RCA	035 042 065 105 149 202	WARDS	000 035 042 047 048 062 072 149 212 240

- Some models cannot be set.

If you do not know the manufacturer's code

Some models may be set by following the procedure shown below even if they are not shown in the manufacturer's code table.

1. Press POWER (or VCR POWER) and RETURN$^+$ at the same time.

2. Press POWER (or VCR POWER). Repeat step 2 until the CATV converter (or VCR) power comes on.

3. Press RETURN$^+$.

- ●This completes the procedure.
  Test the remote control.

To set the CATV converter:
Press POWER and RETURN$^+$ at the same time.

To set the VCR:
Press VCR POWER and RETURN$^+$ at the same time.

AV COMPU LINK connection

— AV COMPU LINK

This TV set is capable of using an AV COMPU LINK. If the TV set is connected to a JVC AV Compu Link-capable VCR and/or hi-fi receiver (or amplifier), automatic switching functions are available.

If the TV set is connected to a JVC AV Compu Link-capable VCR, simply insert a video cassette (with its safety tabs removed) into the VCR. The TV set turns on automatically and the video playback is displayed on the screen.

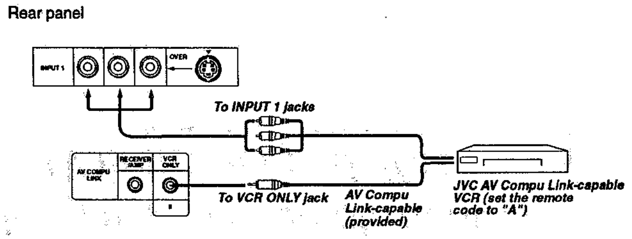
If the TV set is connected via a JVC AV Compu Link-capable hi-fi receiver (or amplifier) to a JVC AV Compu Link-capable VCR, you can do the following:

- Insert a video cassette (with its safety tabs removed) into the VCR. Both the TV set and receiver (or amplifier) turn on automatically and the video is displayed on the screen.
- Change the input source of the receiver (or amplifier) to video input mode. The TV set's input source selector automatically swiches to video input mode [VIDEO-1 or VIDEO-2].
- Turn the receiver (or amplifier) on (or off). Both the TV set and VCR are automatically turned on (or off). For example, if the input source selector of the receiver (or amplifier) is set to "VCR1" and the receiver (or amplifier) is turned on, the TV set and VCR connected to VCR1 are also turned on.

In addition to connecting video and audio signal cables, connect the AV Compu Link cable to the AV COMPU LINK jacks (VCR ONLY or RECEIVER/AMP jacks) to transmit control signals via the AV Compu Link cable.

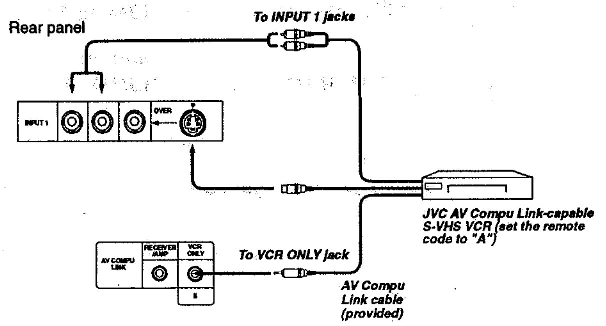
Notes:
- If the TV set is connected to a VCR, connect the provided AV Compu Link cable to the VCR ONLY jack of the TV set. If the VCR is connected to the RECEIVER/AMP jack, this function is not operable.
  If the TV set is connected to the monitor output of an AV Compu Link-capable receiver (or amplifier), and the VCR is connected to the receiver (or amplifier), connect the AV Compu Link cable to the RECEIVER/AMP jack. If the receiver (or amplifier) is connected to the VCR ONLY jack, this function cannot be operated.
- When a VCR or receiver (or amplifier) is connected to the AV COMPU LINK jacks, set the remote code of the VCR's remote control unit as follows:
  - If a VCR is connected to the TV set's INPUT 1 jacks, set the VCR's remote code to "A".
- Also refer to the instruction manuals of the VCR and/or receiver (or amplifier).

Connecting an AV COMPU LINK-capable VCR

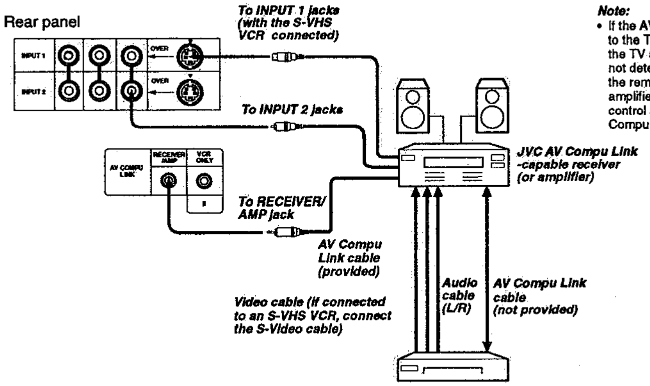

Rear panel
INPUT 1
OVER
To INPUT 1 jacks
AV COMPU LINK
RECEIVER/AMP
VCR ONLY
To VCR ONLY jack
AV Compu Link-capable (provided)
JVC AV Compu Link-capable VCR (set the remote code to "A")

VCR Remote control code A switches the TV to VIDEO INPUT 1.
VCR Remote control code B switches the TV to VIDEO INPUT 2.

Connecting an AV COMPU LINK-Capable S-VHS VCR


Rear panel
To INPUT 1 jacks
INPUT 1
OVER
JVC AV Compu Link-capable S-VHS VCR (set the remote code to "A")
AV COMPU LINK
RECEIVER/AMP
VCR ONLY
To VCR ONLY jack
AV Compu Link cable (provided)

Connecting an AV COMPU LINK-Capable Receiver (or Amplifier)


Rear panel
To INPUT 1 jacks (with the S-VHS VCR connected)
INPUT 1
INPUT 2
OVER
To INPUT 2 jacks
AV COMPU LINK
RECEIVER/AMP
VCR ONLY
To RECEIVER/AMP jack
JVC AV Compu Link -capable receiver (or amplifier)
AV Compu Link cable (provided)
Video cable (If connected to an S-VHS VCR, connect the S-Video cable)
Audio cable (L/R)
AV Compu Link cable (not provided)

Note:
- If the AV Compu Link cable is connected to the TV set's RECEIVER/AMP jack, the TV set's remote control sensor does not detect remote control signals. Aim the remote control at the receiver (or amplifier). Signals from the remote control are transmitted via the AV Compu Link cable to the TV set.

Using Center Speaker for Surround Sound

— CENTER SPEAKER

You can use the TV's speaker as the center speaker.

Condition:
- Connect center output with Surround processor to an amplifier (refer to page 35).

1. Turn the speaker switch ON.

Notes:
- Use an amplifier with 20 W output (or less) and 16 ohms impedance.
- Use separate amplifiers and speakers for FRONT and REAR surround prosessor output.

Troubleshooting

- If the power cord plug is disconnected from the AC outlet, or the TV antenna is causing problems, you may think there is a problem with the TV itself; be sure to check the following items before calling for service.

Important:
- Review all the instructions in this manual.

■ GENERAL

Problem	Cause	Action
No power supply	Is the power plug disconnected?	Insert the plug into the AC outlet (refer to page 8).
No picture or sound	Is the antenna disconnected?	Check the antenna connections (refer to page 8).
	Is the antenna facing in the correct direction?	Aim the antenna in the correct direction.
	Is the input mode (TV, VIDEO-1, 2, 3) set to an incorrect position?	Press TV/VIDEO to set the correct mode (refer to page 11).
	Is the broadcast mode set properly?	Set the correct tuner mode with the MENU buttons (refer to page 11).
	Is the TIME GUARD operating?	Enter the LOCK CODE (refer to page 29).
	Is the TV station the problem?	Watch another channel. If there are no problems with that channel, the TV station is the problem.
Inoperable remote control	Are batteries exhausted?	Replace the batteries (refer to page 9).
	Is the batteries' +/− polarity correct?	Insert the batteries correctly (refer to page 9).
	Is the remote control too far from the TV?	Operate the remote control within approx. 23 ft (7 meters) of the TV.
	Are there any obstructions between the remote control and TV?	Remove any obstructions between the remote control and TV.
	Is the TV/CATV selector set properly?	When operating the TV, set the TV/CATV selector to TV.
	The TV is not receiving remote control commands.	Press POWER on the TV to turn it off, then turn it on again.
The channel cannot be selected	Have the channels been set?	Preset the channels (refer to page 10).
	Is the selected channel guarded?	Press the remote control number buttons to select the channel, then enter the LOCK CODE (refer to page 25).
	Is the TV/CATV selector set properly?	When operating the TV, set the TV/CATV selector to TV.
The power shuts off automatically	Is the SLEEP TIMER set?	Press POWER to turn on the TV again (refer to page 26).
The TV clock is incorrect or the clock has stopped	Was there a power interruption?	Set the clock correctly (refer to page 26).
The timer does not work	Was there a power interruption?	If there is a power interruption, the timer is canceled. Set it again. Also check that the clock is correct (refer to pages 26 to 29).

■ PICTURE

Problem	Cause	Action
Poor colors	Are the COLOR and TINT controls adjusted incorrectly?	Adjust the COLOR and TINT controls (refer to page 18).
	Is THEATER STATUS mode set?	Cancel THEATER STATUS mode (refer to page 18).
	Is it a black and white program?	Change the channel and watch a color program.
Lines or streaks in the picture (interference)	Could there be interference, perhaps from a personal computer, TV, VCR, audio component or radio station?	Move the components apart until the interference is eliminated. Reposition the antenna.
Spotted picture (crosstalk)	Could there be interference, perhaps from a hair dryer, electric cleaner, neon sign, high tension wire, automobile, or motorcycle?	Move the antenna away from the source of interference. Replace the antenna cable with a coaxial cable, which is less prone to interference.
Double pictures (ghost)	Could TV signals be affected by signals reflected, perhaps from mountains or buildings?	Reposition the antenna. Replace with an antenna with better directionality.
Snowy picture (image noise)	Is the external antenna cut or disconnected?	Check the antenna connection (refer to page 8). Position the antenna correctly.
	Has the antenna been turned, perhaps due to a strong wind?	Replace or repair the antenna.
	Is the antenna damaged?	Replace or repair the antenna.
The screen turns blue	Is an empty channel selected?	Select another channel.
	Is NOISE MUTE on?	Turn off NOISE MUTE (refer to page 30).
When a video tape is played, a blue background appears first	Is NOISE MUTE on?	Turn off NOISE MUTE (refer to page 30).
The VCR picture does not appear on the screen	Is the VCR or playback device connected to the TV?	Connect the VCR or playback device to the TV and start playback (refer to page 35).
A black square is covering 80% of the TV screen	Is the Closed Caption Text mode on?	Press CLOSED CAPTION to turn off Text mode (refer to page 32).

■ SOUND

Problem	Cause	Action
Bilingual/stereo broadcasts cannot be heard	Is the MTS mode set correctly?	Set it to STEREO or SAP mode (refer to page 19).

The following are normal occurrences and are not the result of TV malfunctions:
- When you touch the CRT (Cathode Ray Tube: picture tube) surface, you might feel a slight charge of static electricity. This is because the CRT contains static electricity; it does not affect the human body.
- Your TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a still bright image (of a white dress, for example) appears on the screen, the image may be colored. This problem occurs in all CRTs, and when the bright image disappears, the coloration also disappears.

Specifications

Type	: WIDE SCREEN PROJECTION TELEVISION
Reception Standard	: NTSC, BTSC (multi-channel sound)
Received channnels	: VHF 2 to 13, UHF 14 to 69; Sub Mid, Mid, Super, Hyper and Ultra bands (180-channel frequency synthesizer system)
Power source	: 120 V AC, 60 Hz
Power consumption	: Max. 225 W, Avg. 186 W
Projection tube	: Three 6.7 inch tubes
Screen	: Transparent screen
Screen size	: 55 inch, aspect ratio of 16:9, 48" (W) × 27" (H) = 55" (diagonal)
Audio output	: 10 W + 10 W
Speakers	: Round 6.3" speaker × 2, round 4.7" speaker × 1
Antenna terminal	: 75 ohm (VHF/UHF) terminal (F-type connector) × 2 SPLIT OUT terminal × 1
External input (INPUT 1, 2, 3) jacks	: S-VIDEO (except INPUT 3): Y/1Vp-p Positive, 75 ohms (negative sync provided) C/0.286 Vp-p (burst signal), 75 ohms Video: 1 Vp-p, 75 ohms Audio: 500 mV rms (–4 dBs), high impedance
Variable audio output terminal	: More than 0 to 1550 mVrms (+6 dBs), low impedance (400 Hz when modulated 100 %)
Line output terminals	: Video: 1 Vp-p, 75 ohms Audio: 500 mV rms (–4 dBs), low impedance (400 Hz when modulated 100 %)
AV COMPU LINK jacks	: 3.5 mm dia. mini jack × 2
PIP/MAIN AUDIO OUT jack	: 3.5 mm dia. stereo mini jack
Speaker input jacks (Center speaker)	: Impedance 16 ohms
External dimensions (W × H × D)	: 50" × 52-3/4" × 27-5/8", 126.8 × 133.2 × 70.0 cm
Weight	: 235.4 lbs, 107 kg
Accessories	: Remote control unit (RM-C726) × 1 AAA/R03 battery × 2

Design and specifications subject to change without notice.

FOR CANADA, SEE SEPARATE SHEETS FOR WARRNATY/GARANTIE AND JVC AUTHORIZED SERVICE CENTERS IN CANADA.

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1-800-537-5722

Dear customer:
In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-537-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

–JVC

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF US JVC CORP.

FACTORY SERVICE CENTER LOCATIONS

107 Little Falls Road
Fairfield, NJ 07004-2105
(201) 808-9279

1500 Lakes Parkway
Lawrenceville, GA 30243-5357
(404) 339-2522

705 Enterprise Street
Aurora, IL 60504-8149
(708) 851-7855

5665 Corporate Avenue
Cypress, CA 90630-0024
(714) 229-8011

10700 Hammerly Suite 110
Houston, TX 77043
(713) 935-9331

2969 Mapunapuna Place
Honolulu, HI 96819-2040
(808) 833-5828

230 Ellot Street
Ashland, MA 0172-2377
(508) 881-5923

14505 Commerce Way
Miami Lakes, FL 33016-1512
(305) 362-6252

890 Dubuque Avenue
South San Francisco, CA
94080-1804
(415) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS
JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF US JVC CORP.
107 Little Falls Road
Fairfield, NJ 07004-2105

If you ship the product...

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer. Or from the 48 Continental United States call toll free: 800-882-2345.

SAFETY PRECAUTIONS

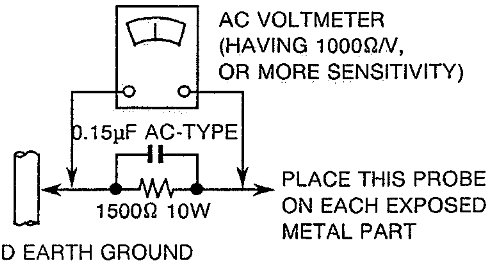
1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection,no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by () on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
4. **Use isolation transformer when hot chassis.**
   The chassis and any sub-chassis contrained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
5. **Don't short between the LIVE side ground and ISOLATED(NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⊜) side GND. Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.
6. If any repair has been made to the chassis, it is recommended that the B_1 setting should be checked or adjusted (See ADJUSTMENT OF B_1 POWER SUPPLY).
7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.
10. **Isolation Check**
    (Safety for Electrical Shock Hazard)
    After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs,metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

- **Alternate Check Method**

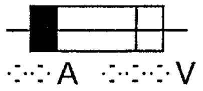
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).



11. **High voltage hold down circuit check.**
    After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.
    See item "**How to check the high voltage hold down circuit**".

■ ONLY CANADA

This mark shows a fast operating fuse, the letters indicated below show the rating.



INSTALLATION

1. INSTALLATION SITE

1. The rear of this set is provided with a cooling fan or ventilation openings. Install the set more than 10 cm from a wall and in a location with good ventilation.
2. Avoid the following types of locations.
   1) Unstable locations (location must be able to withstand heavy weight)
   2) Locations subjected to direct sunlight
   3) Near stoves or other heating devices
   4) Locations subjected to humidity or oily smoke
   5) Dusty locations
   6) Locations with strong vibration
3. After determining the installation site, place the accessory caster tray under the casters.

2. INSTALLATION ADJUSTMENT

When installing, moving or changing the orientation of the set, perform static convergence adjustment according to the following procedure.

1. Supply an input signal or receive a broadcast.
2. Use the [MENU △/▼] keys of the remote controller and at the "INITIAL SETUP" screen, select "CONVERGENCE".
3. Select "RED" with [MENU △/▼] keys.
4. Use the MENU [+/-] keys to produce a crosshatch display on the screen (Fig. 1) .
5. Use the MENU [△/▼] and [+/-] keys to overlap the red line on the green line (A yellow line is produced when red and green are precisely overlapped) (Fig. 2) .
6. After adjusting, press the [EXIT] key.
7. Select "BLUE" with [MENU] keys.
8. Use the MENU [△/▼] and [+/-] keys to overlap the blue line on the green line (A cyan line is produced when blue and green are precisely overlapped) .
9. After adjusting, press the [EXIT] key.
10. Select "FINISH" with [MENU △/▼] keys (The settings will not be store unless "FINISH" is selected.) .
11. After completing adjustments, press the [EXIT] key to return the menu screen.

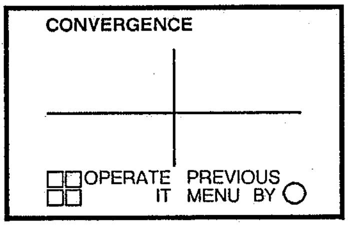


Fig. 1

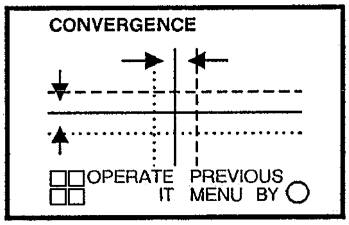


Fig. 2

MAIN PARTS LOCATION

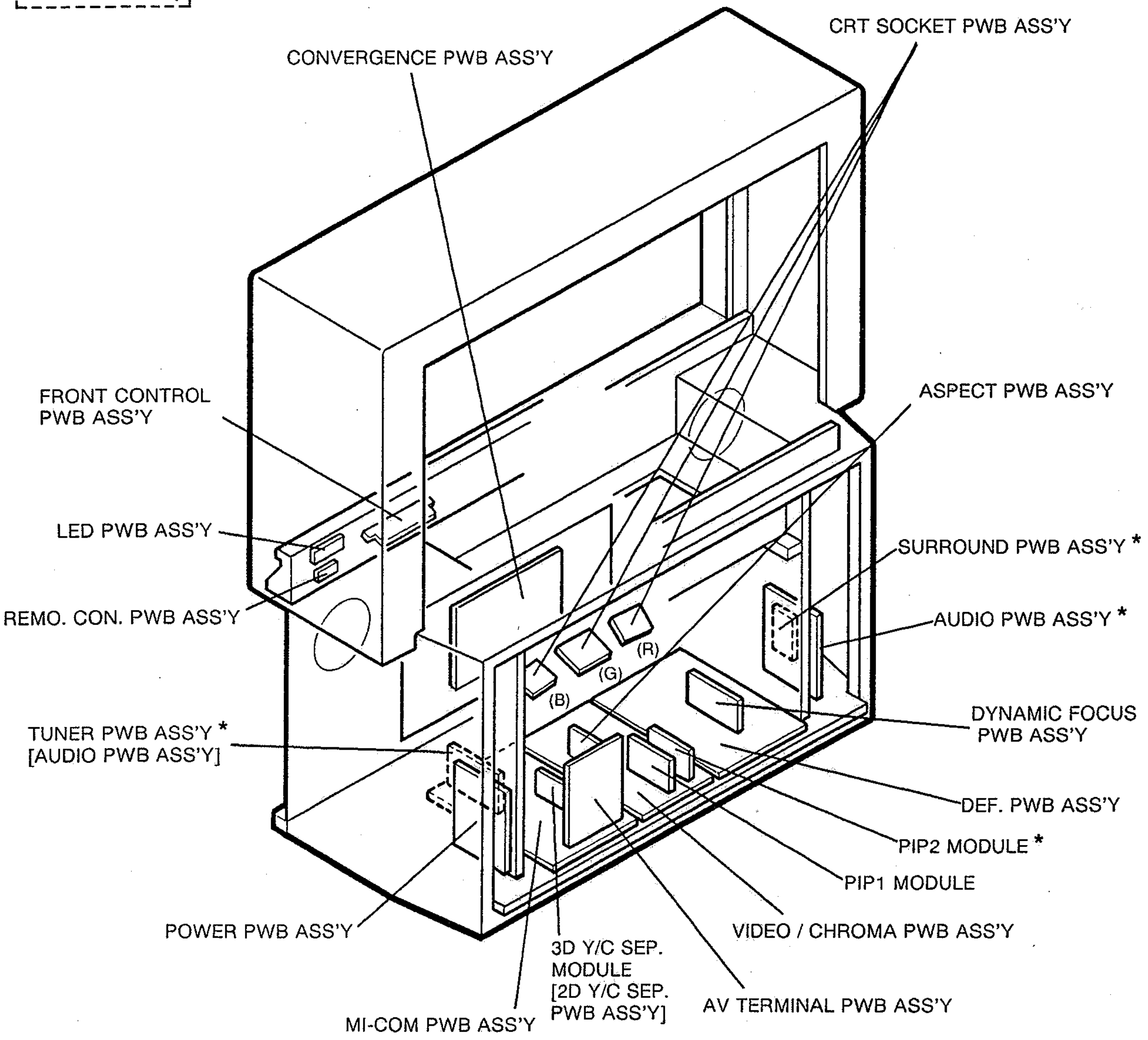
PWB ASS'Y ARRANGEMENT

The PWB ASS'Ys and modules composition is indicated below.
*PWB ASS'Y number in [ ] : for NV-55BH6

- ● MI-COM PWB ASS'Y (PA-7001A [PA-7002A])
  [on MI-COM PWB ASS'Y]
  - ● TUNER PWB ASS'Y (PA-1101A)
  - ● AV TERMINAL PWB ASS'Y (PA-1201A [PA-1202A])
  - ○ 3D Y/C SEP. MODULE (PA-0Y001A)
  - ● 2D Y/C SEP. PWB ASS'Y [PA-0Y002A]
- ● VIDEO / CHROMA PWB ASS'Y (PA-1001A [PA-1002A])
  [on VIDEO / CHROMA PWB ASS'Y]
  - ● ASPECT PWB ASS'Y (PA-0A001A)
  - ○ PIP1 MODULE (PA-0P002A [PA-0P001A])
  - ○ PIP2 MODULE (PA-0P003A)
- ● DEF. PWB ASS'Y (PA-2001A)
  [on DEF. PWB ASS'Y]
  - ● DYNAMIC FOCUS PWB ASS'Y (PA-0D001A)
- ● POWER PWB ASS'Y (PA-9001A [PA-9002A])
- ● AUDIO PWB ASS'Y (PA-6001A [PA-6002A])
  [on AUDIO PWB ASS'Y]
  - ● SURROUND PWB ASS'Y (PA-6201A)
- ● CRT SOCKET PWB ASS'Y (PA-3001A) < ×3 >
- ● CONVERGENCE PWB ASS'Y (PA-8001A)
- ● FRONT CONTROL PWB ASS'Y (PA-4001A)
- ● LED PWB ASS'Y (PA-4003A)
- ● REMO.CON. PWB ASS'Y (PA-4004A)

■TOTAL : PWB ASS'Y = 15 [14]
: MODULE = 3 [1]

*: NV-55BX6 only


CONVERGENCE PWB ASS'Y
CRT SOCKET PWB ASS'Y
FRONT CONTROL PWB ASS'Y
ASPECT PWB ASS'Y
LED PWB ASS'Y
SURROUND PWB ASS'Y *
REMO. CON. PWB ASS'Y
AUDIO PWB ASS'Y *
(R)
(G)
(B)
DYNAMIC FOCUS PWB ASS'Y
TUNER PWB ASS'Y * [AUDIO PWB ASS'Y]
DEF. PWB ASS'Y
PIP2 MODULE *
PIP1 MODULE
POWER PWB ASS'Y
VIDEO / CHROMA PWB ASS'Y
3D Y/C SEP. MODULE [2D Y/C SEP. PWB ASS'Y]
AV TERMINAL PWB ASS'Y
MI-COM PWB ASS'Y

SPECIFIC SERVICE INSTRUCTIONS

1. SCREEN HANDLING CAUTIONS

■ Screen storage

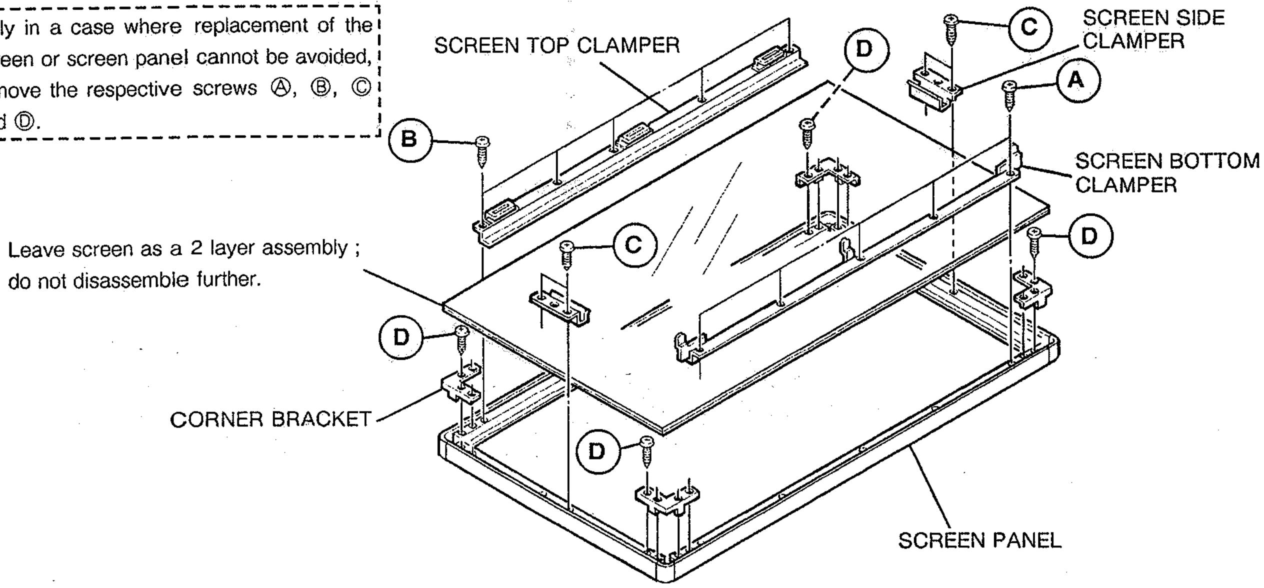
Store the SCREEN ASS'Y in a standing position in order to avoid deformation. If the screen is stored horizontally, there is risk of deforming the screen face.

When necessary to place the SCREEN ASS'Y horizontally, position the screen side upwards and be sure to place spacers between the screen and resting site (floor or stand etc.) to prevent the screen from sagging.

■ Screen surface

Since the screen surface is easily scratched or soiled, use ample care when handling.

Only in a case where replacement of the screen or screen panel cannot be avoided, remove the respective screws Ⓐ, Ⓑ, Ⓒ and Ⓓ.


SCREEN TOP CLAMPER
D
C
SCREEN SIDE CLAMPER
A
B
SCREEN BOTTOM CLAMPER
D
C
Leave screen as a 2 layer assembly ; do not disassemble further.
D
CORNER BRACKET
D
SCREEN PANEL

2. PROJECTION UNIT REPLACEMENT

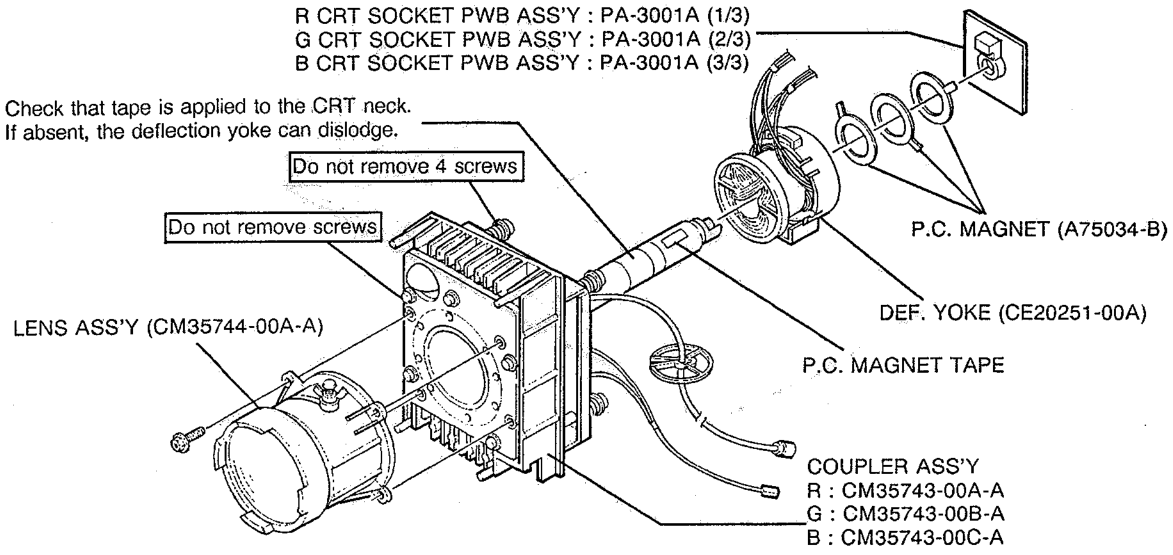
■ Adjustment during replacement

When replacing the three R, G and B projection units, first replace the R and B units and perform convergence adjustments with reference to the G unit. Then replace the G unit. Use care not to simultaneously remove all three projection units.

■ Disassembly caution

The projection units include locations which are not to be disassembled during service. When replacing projection unit parts, disassemble to the state indicated in the figure below.

The figure indicates screws and wires which are not to be removed. Use care not to remove these.


R CRT SOCKET PWB ASS'Y : PA-3001A (1/3)
G CRT SOCKET PWB ASS'Y : PA-3001A (2/3)
B CRT SOCKET PWB ASS'Y : PA-3001A (3/3)
Check that tape is applied to the CRT neck.
If absent, the deflection yoke can dislodge.
Do not remove 4 screws
Do not remove screws
P.C. MAGNET (A75034-B)
LENS ASS'Y (CM35744-00A-A)
DEF. YOKE (CE20251-00A)
P.C. MAGNET TAPE
COUPLER ASS'Y
R : CM35743-00A-A
G : CM35743-00B-A
B : CM35743-00C-A

3. MEMORY IC REPLACEMENT

In event the non-volatic memory IC (IC7704) needs to be replaced, the data must be reentered. In particular, the IC contains video and deflection system data and a normal picture will not be obtained unless these are entered in the replacement IC. If an IC completely void of data is installed, the set can be damaged when power is supplied. Therefore, make sure to replace the IC with AT24C16-55BX6 which contains the data (initial values) .

■ DATA CONTENTS

● LAST MEMORY SETTING

The last memory stores the user settings for the items indicated in the table.

* IC replacement symptoms :

Picture and sound obtained, but remote controller key channels are not set.

● ADJUSTMENT DATA SETTINGS (VIDEO, DEFLECTION & SOUND SYSTEMS)

In order to avoid risk of damage to the set, be sure to replace the IC with one containing the data (initial values) .

* IC replacement symptoms :

Picture and sound obtained, but if data are completely absent, a normal picture is not produced when power is supplied.

■ REPLACEMENT PROCEDURE

1. Before replacing the IC, receive a broadcast and to the extent possible, make a note of the setting value for each item indicated in the table.
2. Produce the SERVICE mode and to the extent possible, make a note of the adjustment values of all adjustment items (See page 1-14) .
   Where the on screen indications cannot be read due to sync distruption or other cause, select the input mode for a external video input where a signal is not present.
3. Switch off the power and disconnect the power cord from AC.
4. Replace memory IC (IC7704) .
5. Connect the power cord to AC and switch on the power.
6. Use the remote controller to set the values noted in step 1.
7. Produce the SERVICE mode.
8. Set the adjustment values noted in step 2 in the sequence indicated in the table.
   Where adjustment values could not be noted in step 2, set to the standard adjustment values (See page 1-15) in the sequence indicated in the table . Afterwards, perform fine adjustment as required.

■ LAST MEMORY SETTING ITEMS

Setting item	Setting item
AV STATUS mode	CATEGORY PREVIEW
ASPECT mode	YOUR FAVORITES
DSP mode	SET CLOCK CODE
PICTURE ADJUST (×5)	CHANNEL SUMMARY
VNR	ANTENNA INPUT
AI CONTRAST	AUTO TUNER SET UP
NOISE MUTE	TUNER MODE
SET AV STATUS (CHOICE)	MUTE LEVEL
SOUND ADJUST (×3)	CLOSED CAPTION mode
MTS mode	LANGUAGE
TIME GUARD	VERTICAL POSITION
HOME SHITTER	VERTICAL SIZE
DUAL ON TIMER	CONVERGENCE (STATIC)
SPECIAL DAY	SIDE PANEL

■ ADJUSTMENT DATA SETTING

Setting sequence	Item number
PICTURE SERVICE	49 items
SOUND SERVICE	11 items
PIP SERVICE	40 items
OTHERS	17 items
Total	**117 items**
3D Y/C SERVICE	74 items
Total	**74 items**

* "3D Y/C SERVICE" : Effective only NV-55BX6

4. DISASSEMBLY PROCEDURE

1) EXTERNAL COMPONENTS (REAR)

■ BACK BOARD

1. Remove 2 screws Ⓐ.
2. Loosen 8 screws Ⓑ.
3. Slightly raise and take out the BACK BOARD.

■ REAR COVER

1. Take out the BACK BOARD.
2. Loosen 2 screws Ⓓ.
3. Remove 8 screws Ⓒ.
4. Slightly raise and take out the REAR COVER.

■ HV DIVIDER

1. Take out the BACK BOARD.
2. Remove 2 screws Ⓖ.
3. Take out the HV DIVIDER.

■ MIRROR

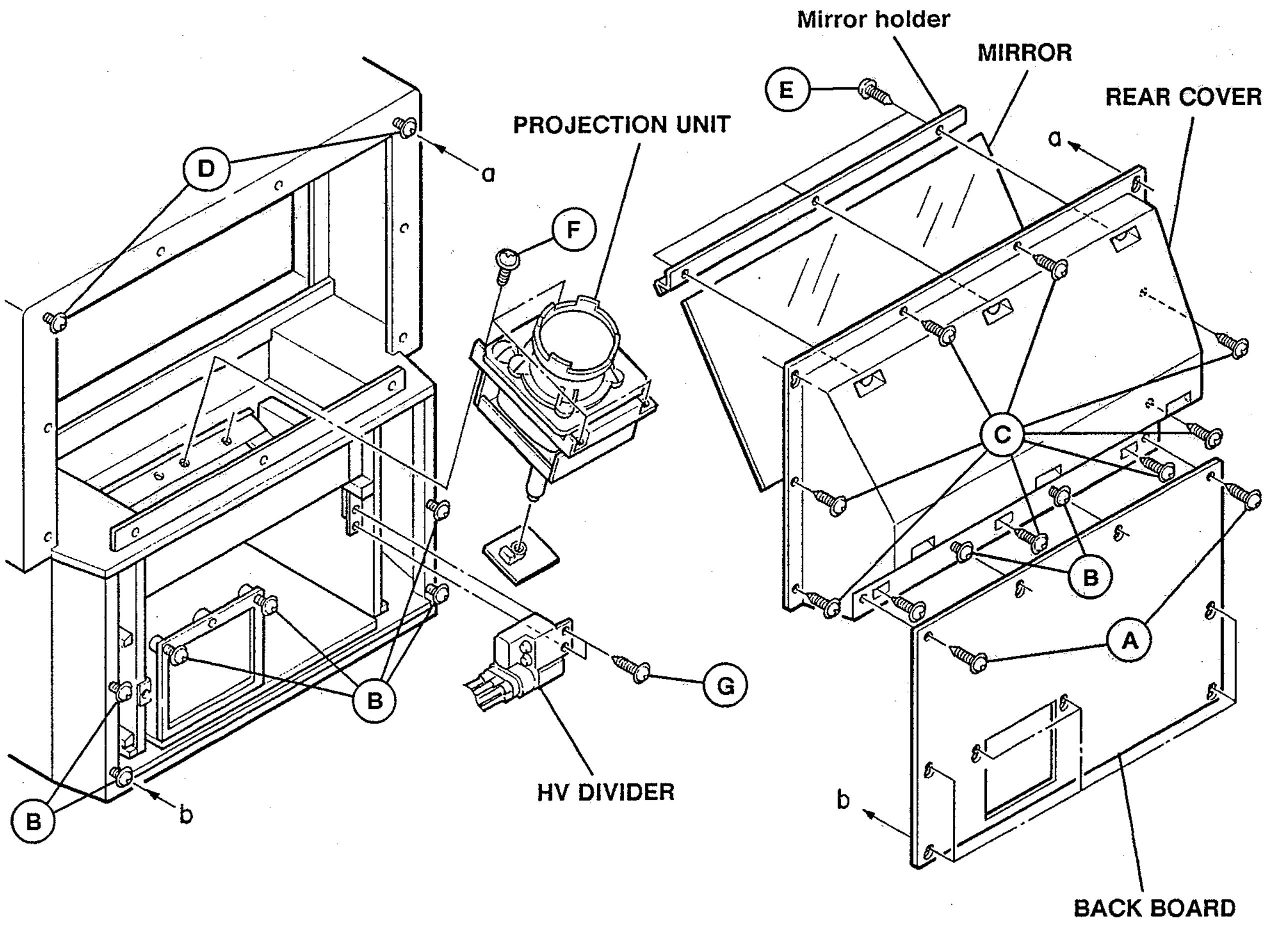
1. Take out the BACK BOARD and REAR COVER.
2. Remove 3 screws Ⓔ.
3. Take out the mirror holder. Slightly raise and take out the MIRROR.

※ **Note** :The MIRROR is front-coated. Do not touch the front of the MIRROR.

■ PROJECTION UNIT

1. Take out the BACK BOARD and REAR COVER.
2. Remove 4 screws Ⓕ.
3. Take out the PROJECTION UNIT.

※ **Note** :Refer to "2. Projection unit replacement" when taking out and replacing the PROJECTION UNITS.


Mirror holder
MIRROR
REAR COVER
PROJECTION UNIT
E
D
a
F
a
C
B
A
B
G
B
b
HV DIVIDER
b
BACK BOARD

2) EXTERNAL COMPONENTS (FRONT)

■ SCREEN ASS’Y

1. Remove 2 screws Ⓐ (at left and right of the screen bottom).
2. The SCREEN ASS’Y is secured by hooks. Raise slightly to disengage of the screen from the hooks.
3. Place the screen with face upwards on a flat stand.

■ CONTROL PANEL

1. Take out the speaker grille by pulling it outward (pull the top edge to take out) .
2. Remove 3 screws Ⓑ.
3. Pull the CONTROL PANEL outward.

■ FRONT BOARD

1. Take out the speaker grille (pull the top edge to take out) .
2. Loosen 2 screws Ⓗ.
3. Remove 1 screw Ⓒ.
4. Shift the FRONT BOARD slightly toward the left and pull outward to take out.

* Disengage 6 tabs to take out the CONVERGENCE PWB ASS’Y.

■ FOCUS PACK

1. Take out the speaker grille and FRONT BOARD.
2. Remove 2 screws Ⓓ.
3. Take out the FOCUS PACK.

■ FRONT & CENTER SPEAKER

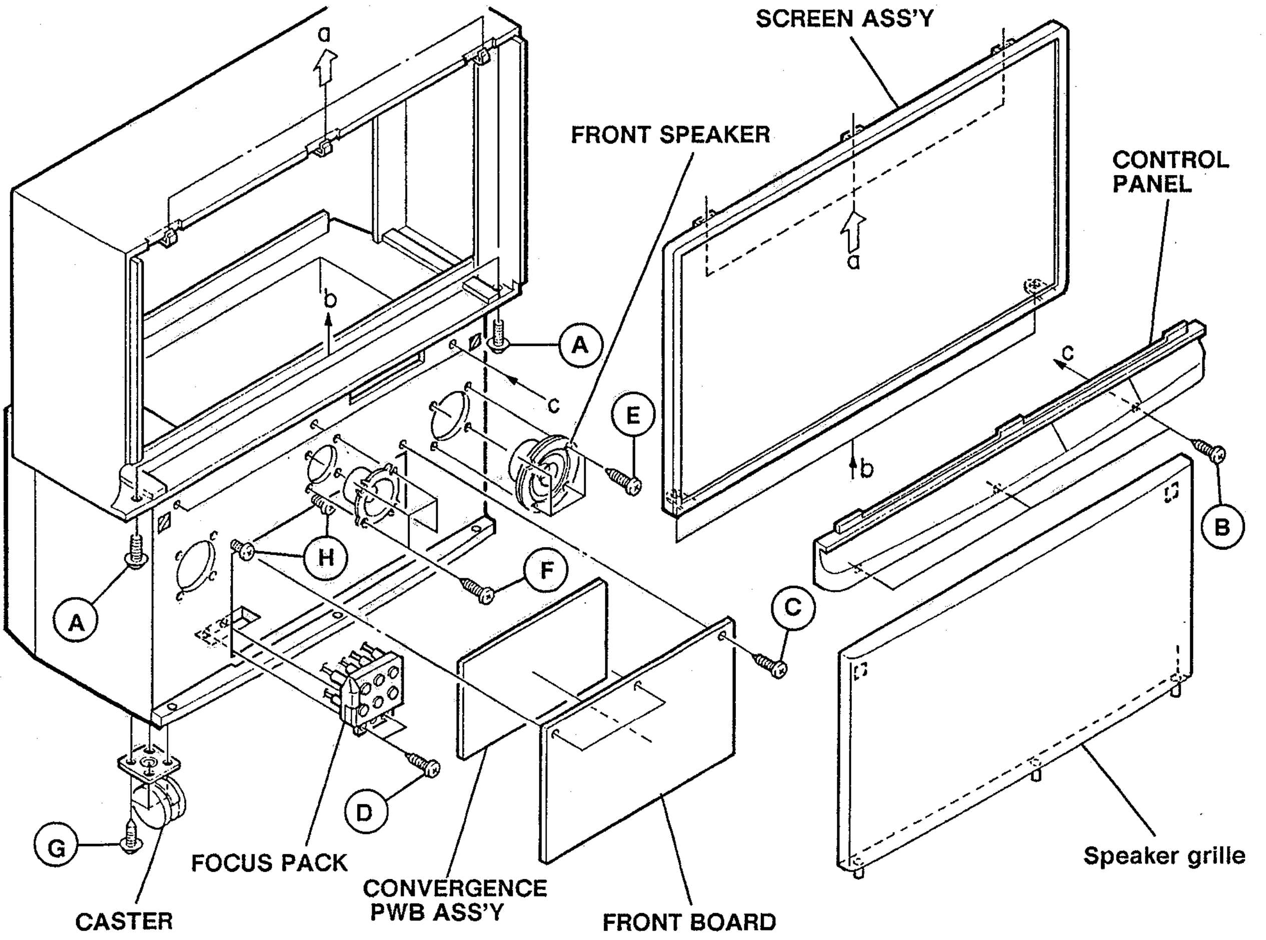
1. Take out the speaker grille.
2. Remove 4 screws Ⓔ.
3. Pull the FRONT SPEAKER outward.
4. Disengage the speaker cord and take out the SPEAKER.

[NV-55BX6 only]

5. Remove 4 screws Ⓕ.
6. Pull the CENTER SPEAKER outward .
7. Disengage the speaker cord and take out the SPEAKER.

■ CASTER

1. Lay the set sideways on a soft cloth. Lay the set either on its left or right side, but not with the screen downwards.
2. Remove 4 screws Ⓖ.
3. Take out the CASTER.



3) PWB ASS'Y RELATED

■ MAIN CHASSIS

1. Take out the BACK BOARD.
2. Remove 2 screws Ⓐ.
3. Pull the MAIN CHASSIS (PWB ASS'Ys : MI-COM, VIDEO / CHROMA, DEF. etc.) outward to remove.
4. When conducting powered ckeck, position the front downward and stand AV TERMINAL BOARD vertically so as to engage it with the shading bracket.

* Disengage wire clamps as required. However, replace these to original positions when completing work. Particularly observe absence of wires in the area of the high voltage transformer.

* The standing PWB ASS'Ys can be installed and taken out by engaging and disengaging the connectors.

* During powered checks, inhsert paper or other insulating material to prevent the MAIN CHASSIS from contacting other PWB ASS'Ys.

■ AV TERMINAL BOARD

1. Take out the BACK BOARD.
2. Remove 1 screw Ⓑ.
2. Disengage 2 hooks Ⓒ and 2 hooks Ⓓ.
3. Pull forward and take out the AV TERMINAL BOARD.

■ POWER PWB ASS'Y

1. Take out the BACK BOARD.
2. Remove 1 screw Ⓔ.
3. Pull forward and take out the POWER PWB ASS'Y.

* When reinstalling, insert the POWER PWB ASS'Y in the top and bottom grooves of the cabinet.

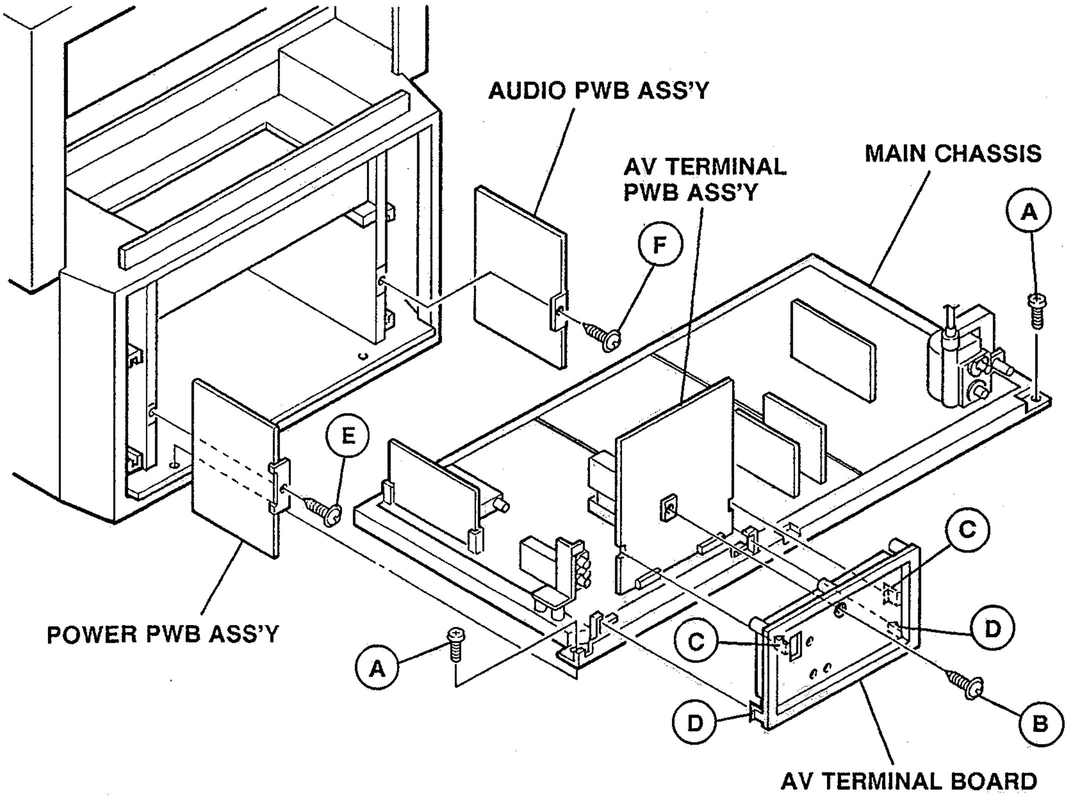
■ AUDIO PWB ASS'Y [NV-55BX6 only]

1. Take out the BACK BOARD.
2. Remove 1 screw Ⓕ.
3. Pull forward and take out the AUDIO PWB ASS'Y.

* When reinstalling, insert the AUDIO PWB ASS'Y in the top and bottom grooves of the cabinet.

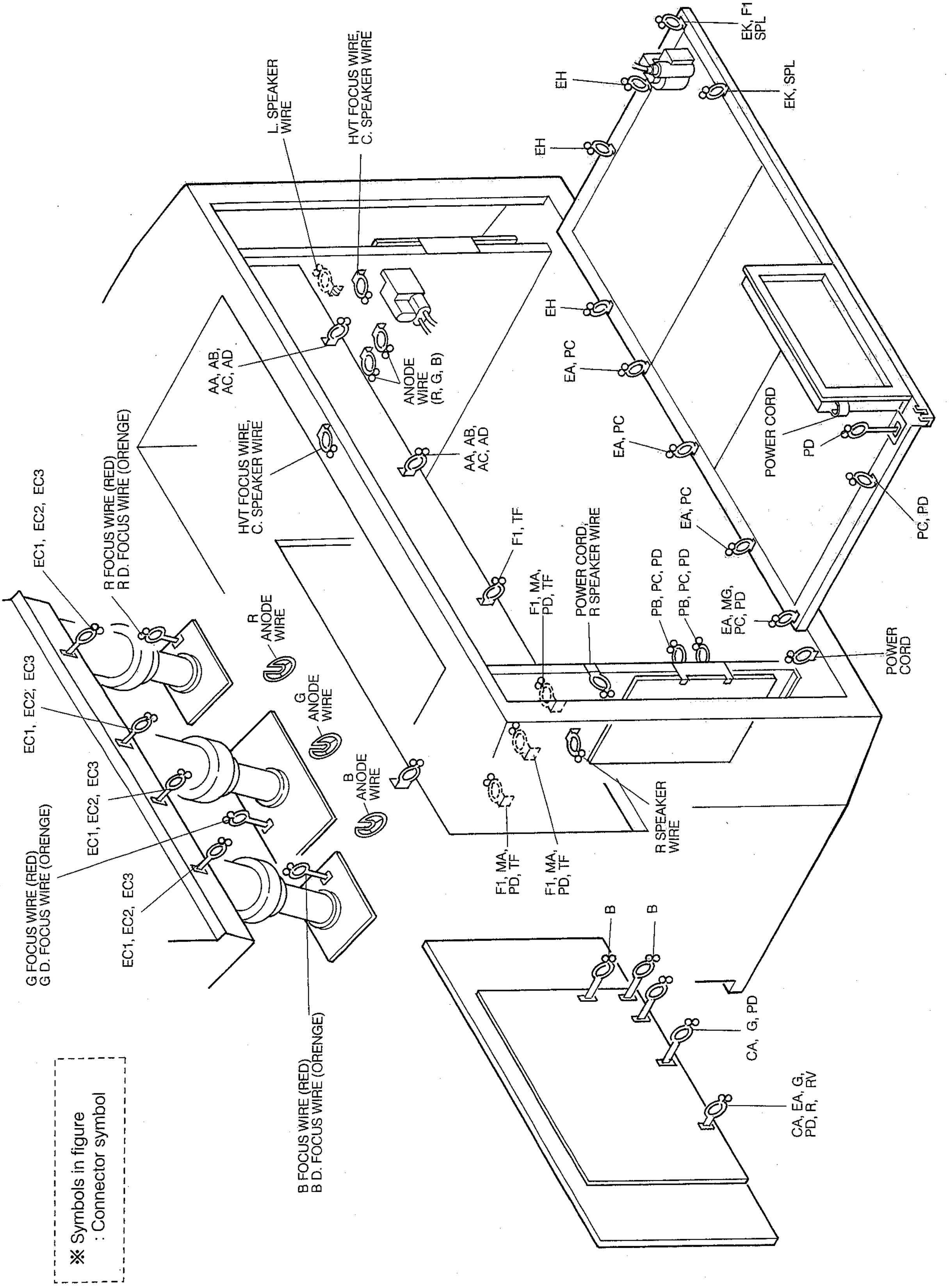
※ WIRE CLAMPS

- When wire clamps are removed during work, use care to restore them precisely to their original positions. Performance can be affected if these are not returned to the original positions.



WIRE CLAMP LOCATION

- When wire clamps are removed during work, use care to restore them precisely to their original positions. Performance can be affected if these are not returned to the original positions.


EK, F1, SPL
EH
EK, SPL
EH
L. SPEAKER WIRE
HVT FOCUS WIRE, C. SPEAKER WIRE
AA, AB, AC, AD
ANODE WIRE (R, G, B)
EH
EA, PC
EA, PC
POWER CORD
PD
PC, PD
AA, AB, AC, AD
HVT FOCUS WIRE, C. SPEAKER WIRE
R FOCUS WIRE (RED)
R D. FOCUS WIRE (ORENGE)
EC1, EC2, EC3
F1, TF
F1, MA, PD, TF
POWER CORD, R SPEAKER WIRE
PB, PC, PD
PB, PC, PD
EA, PC
EA, MG, PC, PD
POWER CORD
R ANODE WIRE
EC1, EC2, EC3
G ANODE WIRE
EC1, EC2, EC3
B ANODE WIRE
G FOCUS WIRE (RED)
G D. FOCUS WIRE (ORENGE)
EC1, EC2, EC3
R SPEAKER WIRE
F1, MA, PD, TF
F1, MA, PD, TF
B
B
CA, G, PD
CA, EA, G, PD, R, RV
B FOCUS WIRE (RED)
B D. FOCUS WIRE (ORENGE)
※ Symbols in figure
: Connector symbol

SERVICE ADJUSTMENT

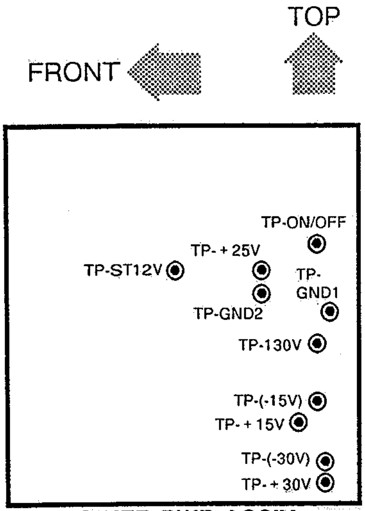
1. PRIOR TO STARTING ADJUSTMENTS

1. many adjustments of this model are performed using the remote controller, while other are performed in the conventional manner using components of the PWB ASS'Y and other parts (* "7. ADJUSTING STEP" indicated in paren-theses are performed using the remote controller.) .
   Refer to the Operating instructions regarding adjustments using the remote controller.
   The adjustment procedure for this model is arranged in the manner of a flowchart.
2. Allow ample time (at least 30minutes) for the set and test equipment to warm up.
3. Check that AC120V is properly supplied.
4. Use care not to disturb controls or other parts not specifically mentioned in the "ADJUSTING STEP".
5. Unless otherwise mentioned in the adjustment procedure, use the remote controller and mainframe switches to preset the following functions as indicated.
   - **AV STATUS : RESET**
   - **PICTURE ADJUST : All center (00)**
   - **VNR : OFF**
   - **AI CONTRAST : OFF**
   - **ASPECT : FULL**
   - **VERTICAL POSITION : 00 (Center)**
   - **VERTICAL SIZE : 00 (Center)**
   - **SOUND MODE : OFF**
   - **SOUND ADJUST : All center (00)**
   - **TIMER SETTING : All stop mode**

2. TEST EQUIPMENT AND FIXTURES

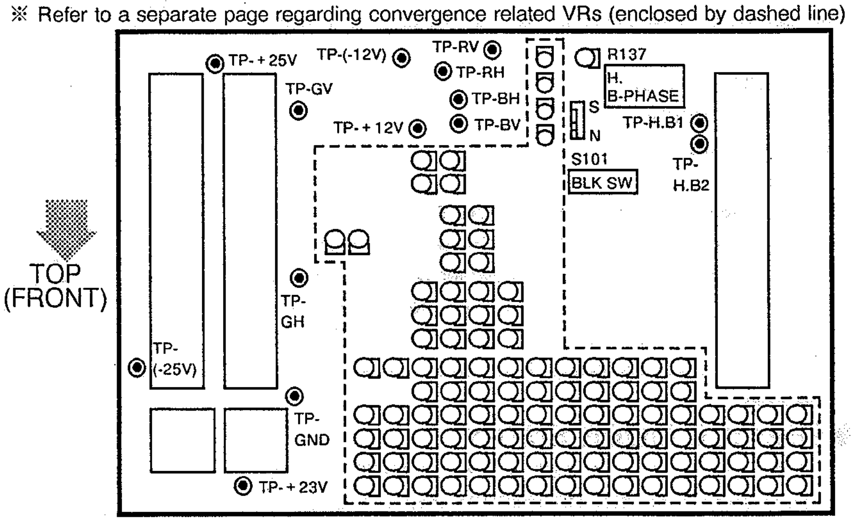
1) DC voltmeter (Digital DC voltmeter)
2) Oscilloscope
   - Dual trace
   - DC - 15 MHz
   - Delayed sweep function
   - 10:1 probes
3) Test pattern generator (Signal generator)
   Pattern : Full color bar, Crosshatch, Dot, All-white
   (* If available : Split color bar, Mono-scope [Resolution], Greyscale, Pedestal)
4) Remote controller [RM-C726 / RM-C727]
5) Short jumper
6) insulated adjusting driver (flat blade - small)

3. ADJUSTMENT LOCATION

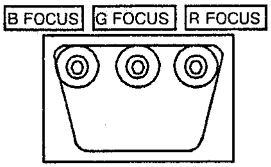

TOP
FRONT
TP-ON/OFF
TP-+25V
TP-ST12V
TP-GND1
TP-GND2
TP-130V
TP-(-15V)
TP-+15V
TP-(-30V)
TP-+30V

POWER PWB ASS'Y

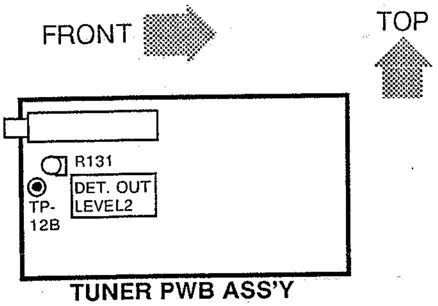
※ Refer to a separate page regarding convergence related VRs (enclosed by dashed line) .


TP-+25V
TP-(-12V)
TP-RV
TP-RH
TP-GV
TP-BH
TP-+12V
TP-BV
R137
H. B-PHASE
S
N
TP-H.B1
S101
BLK SW
TP-H.B2
TOP (FRONT)
TP-GH
TP-(-25V)
TP-GND
TP-+23V

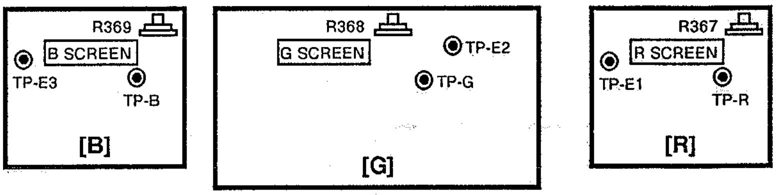
CONVERGENCE PWB ASS'Y


B FOCUS
G FOCUS
R FOCUS

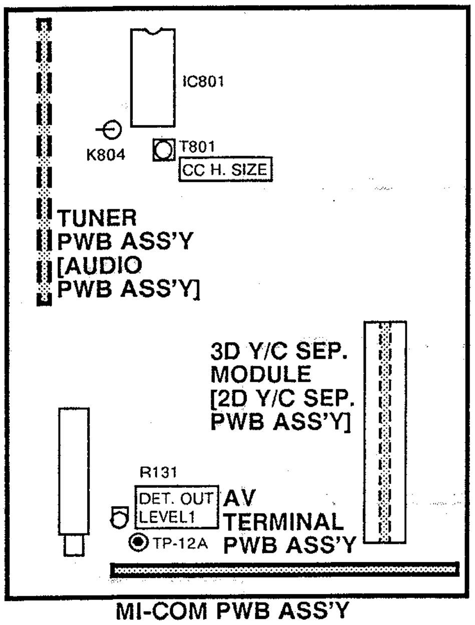
FOCUS PACK


FRONT
TOP
R131
DET. OUT LEVEL2
TP-12B

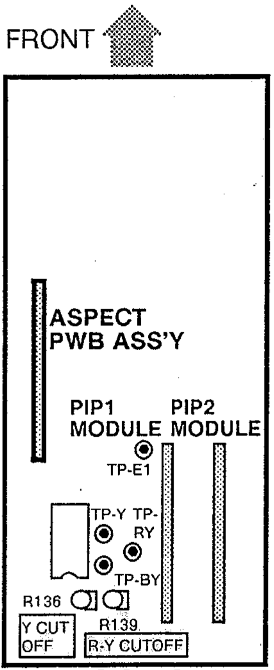
TUNER PWB ASS'Y
[NV-55BX6 only]


R369
B SCREEN
TP-E3
TP-B
[B]
R368
G SCREEN
TP-E2
TP-G
[G]
R367
R SCREEN
TP-E1
TP-R
[R]

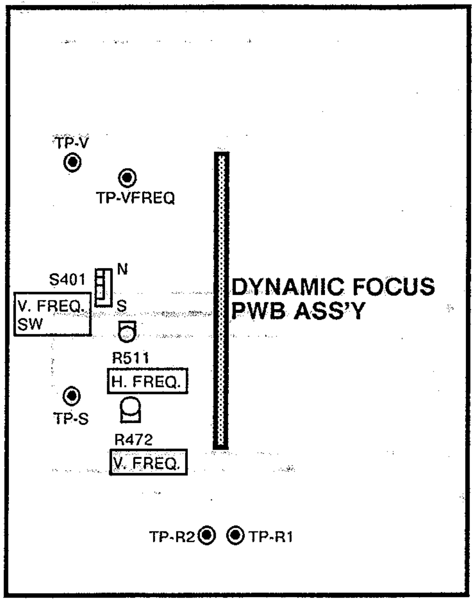
CRT SOCKET PWB ASS'Y


IC801
K804
T801
CC H. SIZE
TUNER PWB ASS'Y [AUDIO PWB ASS'Y]
3D Y/C SEP. MODULE [2D Y/C SEP. PWB ASS'Y]
R131
DET. OUT LEVEL1
TP-12A
AV TERMINAL PWB ASS'Y

MI-COM PWB ASS'Y


FRONT
ASPECT PWB ASS'Y
PIP1 MODULE
PIP2 MODULE
TP-E1
TP-Y
TP-RY
TP-BY
R136
Y CUT OFF
R139
R-Y CUTOFF

VIDEO/CHROMA
PWB ASS'Y


TP-V
TP-VFREQ
S401
N
S
V. FREQ. SW
DYNAMIC FOCUS PWB ASS'Y
R511
H. FREQ.
TP-S
R472
V. FREQ.
TP-R2
TP-R1

DEF. PWB ASS'Y

4. ADJUSTMENTS WITH REMOTE CONTROLLER

These adjustments are performed by entering the SERVICE mode and using the remote controller. The adjustments consist of the following types.

①PICTURE SERVICE
②SOUND SERVICE
③PIP SERVICE
④OTHERS
⑤3D Y/C SERVICE [effective only NV-55BX6]

Avoid disturbing the "3D Y/C SERVICE" settings, which have been preadjusted at the factory. If inadvertently changed, return the settings to the values indicated in the "STANDARD ADJUSTMENT VALUES" table.

If the setting values are changed, a normal picture may be unobtainable.

■SERVICE MODE ENTRY

1. Set the time to "3 : 21 AM" and select "SET CLOCK" (Screen A) from the "COLOR/TIMERS" screen of the menu.
2. Press the [MUTE] key.
3. Then press the [MENU △/▼] keys.
4. Which Screen B is displayed (about 5 minutes) , press the MENU [△/▼] or [+/-] key.
5. The SERVICE mode is entered when Screen C is displayed.

■SERVICE MODE RELEASE

METHOD 1 :

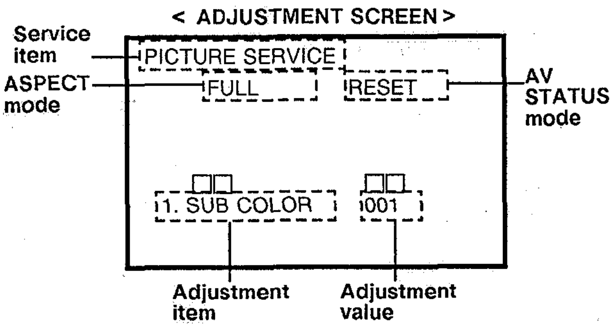
Switch off the power by pressing the [POWER] key of the remote controller or mainframe.

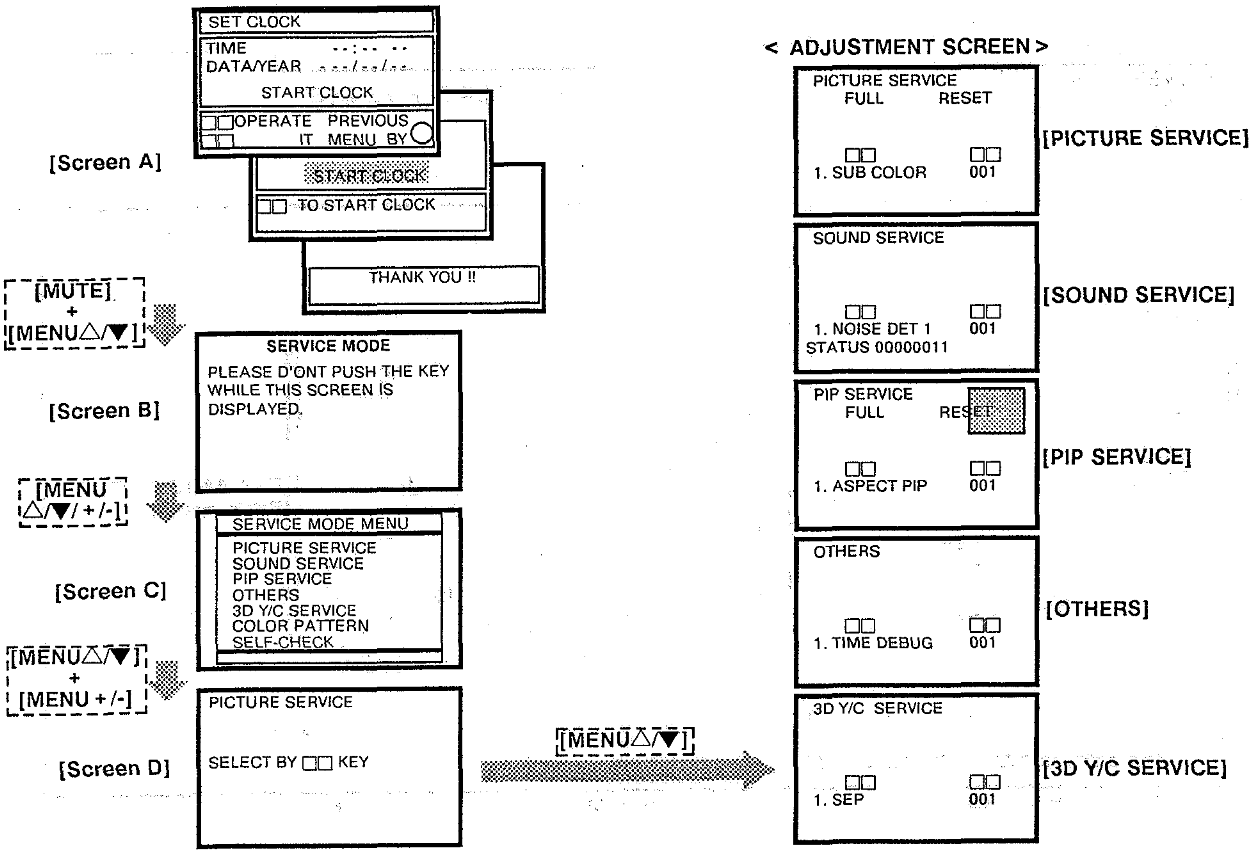
METHOD 2 :

Hold the [EXIT] key depressed until the SERVICE mode screen extinguishes and normal operation is returned.

■BASIC ADJUSTMENT PROCEDURE

1. Set the SERVICE mode.
2. According to the adjustment contents, select the appropriate screen with the [MENU +/-] keys.
3. Which Screen D is displayed, press the MENU [+] or [-] key.
4. Select the adjustment item with the [MENU △/▼] keys.
5. Change the data (adjustment value) with the [MENU +/-] keys. Release the key to store the data.
6. To adjust another service item (screen) , first press the [EXIT] key. At the SERVICE MODE MENU screen, again select the required item (screen) .
7. At the end of adjustments, press the [EXIT] key several times and release the SERVICE mode.


< ADJUSTMENT SCREEN >
Service item
ASPECT mode
PICTURE SERVICE
FULL
RESET
AV STATUS mode
□□
1. SUB COLOR
□□
001
Adjustment item
Adjustment value


[Screen A]
SET CLOCK
TIME --:-- --
DATA/YEAR --/--/--
START CLOCK
□□OPERATE PREVIOUS
□□ IT MENU BY
START CLOCK
□□ TO START CLOCK
THANK YOU !!
[MUTE] + [MENU△/▼]
[Screen B]
SERVICE MODE
PLEASE D'ONT PUSH THE KEY WHILE THIS SCREEN IS DISPLAYED.
[MENU △/▼/+/-]
[Screen C]
SERVICE MODE MENU
PICTURE SERVICE
SOUND SERVICE
PIP SERVICE
OTHERS
3D Y/C SERVICE
COLOR PATTERN
SELF-CHECK
[MENU△/▼] + [MENU +/-]
[Screen D]
PICTURE SERVICE
SELECT BY □□ KEY
[MENU△/▼]
< ADJUSTMENT SCREEN >
PICTURE SERVICE
FULL RESET
□□ □□
1. SUB COLOR 001
[PICTURE SERVICE]
SOUND SERVICE
□□ □□
1. NOISE DET 1 001
STATUS 00000011
[SOUND SERVICE]
PIP SERVICE
FULL RESET
□□ □□
1. ASPECT PIP 001
[PIP SERVICE]
OTHERS
□□ □□
1. TIME DEBUG 001
[OTHERS]
3D Y/C SERVICE
□□ □□
1. SEP 001
[3D Y/C SERVICE]

5. STANDARD ADJUSTMENT VALUES (INITIAL SETTING VALUES)

- When adjusting with the remote controller, refer to the "STANDARD ADJUSTMENT VALUES" table and fine adjust while observing the picture. The standard adjustment values are indicated for reference and are not absolutely required values. Refer to the adjustment procedure on page 1-20.
- If the memory IC (IC7704) is replaced, be sure to set the standard adjustment values.
- Regarding items indicated "Fixed" in the standard adjustment value column, use care not to distuab the values (data) expect for settings when replacing the memory IC.

● PICTURE SERVICE (* [ ] : NV-55BH6)

The RESET, THEATER and BRIGHT ROOM AV STATUS and screen size settings need to set according to the item.

Item No.	Adjustment item	Variable range	RESET	THEATER	BRIGHT ROOM		
1	SUB COLOR	0 - 127	76	67	76		
2	SUB TINT	0 - 127	80	68	80		
3	SUB BRIGHT	0 - 255	145	145	145		
4	SUB CONT.	0 - 127	70	56	70		
5	DETAIL 1-2	0 - 1	1 Fixed	1 Fixed	1 Fixed		
6	SUB DETAIL	0 - 127	55 [48]	50 [43]	55 [48]		
7	R CUT 0-3	0 - 3	1	1	1		
8	R CUTOFF	0 - 255	120	120	120		
9	G CUTOFF	0 - 255	70	70	70		
10	B CUT 0-3	0 - 3	1	1	1		
11	B CUTOFF	0 - 255	100	100	100		
12	R DRV 0-1	0 - 1	0	0	0		
13	R DRIVE	0 - 127	70	95	70		
14	B DRV 0-1	0 - 1	0	0	0		
15	B DRIVE	0 - 127	110	85	110		

Item No.	Adjustment item	Variable range	Standard				
16	Y DL	0 - 1	0 Fixed				
17	APA DL	0 - 1	0 Fixed				
18	DC	0 - 1	0 Fixed				
19	R/G/B SW	0 - 1	0				
20	BLK WIDTH	0 - 1	0 Fixed				
21	COL. TRACK	0 - 1	0 Fixed				
22	H. BLK.	0 - 1	1 Fixed				
23	PRE/OVER	0 - 7	5 Fixed				
24	W. CHARA.	0 - 15	7 Fixed				
25	W. CHARA. SL	0 - 15	15 Fixed				
26	BLACK/COL	0 - 1	0 Fixed				
27	S. C. P	0 - 1	1 Fixed				

Item No.	Adjustment item	Variable range	FULL	REGULAR	PANORAMA	CINEMA I	CINEMA II
28	DAC V. WIDTH	0 - 255	47	47	59	99	114
29	DAC V. POSI	0 - 255	140	142	140	140	140
30	TRAPE	0 - 63	32	32	31	31	31
31	SPCC	0 - 63	8	8	10	18	21
32	L TILT	0 - 15	4 Fixed	4 Fixed	4 Fixed	4 Fixed	4 Fixed
33	U TILT	0 - 15	0 Fixed	0 Fixed	0 Fixed	0 Fixed	0 Fixed
34	H. WIDTH	0 - 63	48	51	61	47	47
35	H. POSI	0 - 31	10	10	10	10	10
36	V. WIDTH	0 - 127	63 Fixed	63 Fixed	63 Fixed	63 Fixed	63 Fixed
37	V. POSI.	0 - 63	31 Fixed	31 Fixed	31 Fixed	31 Fixed	31 Fixed
38	V. S COL	0 - 63	31 Fixed	31 Fixed	31 Fixed	31 Fixed	31 Fixed
39	V. LIN	0 - 63	31 Fixed	31 Fixed	31 Fixed	31 Fixed	31 Fixed

Item No.	Adjustment item	Variable range	RESET	THEATER	BRIGHT ROOM		
40	BLACK GAIN	0 - 15	15 Fixed	0 Fixed	15 Fixed		
41	GAM. LEVEL	0 - 15	7 Fixed	7 Fixed	7 Fixed		
42	GAM. GAIN 1	0 - 15	7 Fixed	7 Fixed	7 Fixed		
43	GAM. GAIN 2	0 - 15	7 Fixed	0 Fixed	7 Fixed		
44	DEMO. AXIS	0 - 31	22 Fixed	10 Fixed	22 Fixed		
45	DEMO. GAIN	0 - 63	28	28	28		
46	G-Y RATIO	0 - 3	0 Fixed	2 Fixed	0 Fixed		

Item No.	Adjustment item	Variable range	FULL	REGULAR	PANORAMA	CINEMA I	CINEMA II
47	V. HV. F	0 - 15	7 Fixed	7 Fixed	7 Fixed	7 Fixed	7 Fixed
48	H. HV. F	0 - 15	8 Fixed	8 Fixed	8 Fixed	8 Fixed	8 Fixed

Item No.	Adjustment item	Variable range	TV	VIDEO			
49	AFC GAIN	0 - 3	2 Fixed	2 Fixed			

● SOUND SERVICE

Item No.	Adjustment item	Variable range	Standard				
1	NOISE DET 1	0 - 1	1 Fixed				
2	INPUT LVL 1	0 - 63	31				
3	FH MONITOR 1	0 - 1	0				
4	STEREO VCO 1	0 - 63	25				
5	PILOT CANC 1	0 - 1	0				
6	FILTER 1	0 - 63	20				
7	LOW F SEPA 1	0 - 63	30				
8	HIGH F SEPA 1	0 - 63	28				
9	5FH MONITOR 1	0 - 1	0				
10	SAP VCO 1	0 - 63	38				
11	MUTE 1	0 - 1	1 Fixed				

● PIP SERVICE

The screen size settings need to set according to the item.

Item No.	Adjustment item	Variable range	FULL	REGULAR	PANORAMA	CINEMA I	CINEMA II
1	ASPECT PIP	0 - 31	27 Fixed	27 Fixed	24 Fixed	25 Fixed	24 Fixed
2	V POSI T PIP	0 - 255	18	18	21	31	34
3	V POSI B PIP	0 - 255	78	78	75	75	72
4	H POSI L PIP	0 - 255	54	56	48	50	48
5	H POSI R PIP	0 - 255	193	189	167	176	167
6	ASPECT L SPL	0 - 255	14 Fixed	16 Fixed	14 Fixed	12 Fixed	12 Fixed
7	ASPECT R SPL	0 - 255	14 Fixed	16 Fixed	14 Fixed	12 Fixed	12 Fixed
8	V POSI SPL	0 - 255	37	37	37	37	37
9	H POSI L SPL	0 - 255	27	37	27	18	18
10	H POSI R SPL	0 - 255	79	91	79	66	66

Item No.	Adjustment item	Variable range	Standard				
11	ASPECT POP	0 - 31	26 Fixed				
12	V POSI T POP	0 - 255	11				
13	V POSI B POP	0 - 255	87				
14	H POSI L POP	0 - 255	45				
15	H POSI R POP	0 - 255	191				
16	ASPECT CAT	0 - 255	26 Fixed				
17	V POSI CAT	0 - 255	11				
18	H POSI R CAT	0 - 255	191				
19	Y/C DELAY	0 - 3	0 Fixed				
20	FRAME WDT SIGL	0 - 3	1				
21	FRAME WDT SPLT	0 - 3	1				
22	CLAMP POS	0 - 3	0 Fixed				
23	H FILTER	0 - 1	0 Fixed				
24	V FILTER SIGL	0 - 1	0 Fixed				
25	V FILTER SPLIT	0 - 1	1 Fixed				
26	H AREA	0 - 3	0 Fixed				
27	V AREA	0 - 255	2 Fixed				
28	PIP1 TINT	0 - 255	175				
29	PIP1 COLOR	0 - 255	175				
30	PIP1 CONT SIGL	0 - 255	140				
31	PIP1 CONT SPLT	0 - 255	140				
32	PIP1 G DRV	0 - 255	125				
33	PIP1 B DRV	0 - 255	155				
34	PIP2 TINT	0 - 255	175				
35	PIP2 COLOR	0 - 255	175				
36	PIP2 CONT SPLT	0 - 255	140				
37	PIP2 G DRV	0 - 255	125				
38	PIP2 B DRV	0 - 255	155				
39	PIP SHARP SIGL	0 - 255	170				
40	PIP SHARP SPLT	0 - 255	190				

● OTHERS

Item No.	Adjustment item	Variable range	Standard				
1	TIME DEBUG	0 - 1	0 Fixed				
2	HRC DEBUG	0 - 1	0 Fixed				
3	IRC DEBUG	0 - 1	0 Fixed				
4	NOISE VOL 1	0 - 63	50				
5	NOISE VOL 2	0 - 63	50				
6	V. BLK	0 - 255	108				
7	P MUTE OFST	-127 - +127	±0 Fixed				
8	H. POSI. L	0 - 63	30				
9	H. POSI. R	0 - 63	0				
10	R OFF	0 - 1	1				
11	G OFF	0 - 1	1				
12	B OFF	0 - 1	1				
13	RGB OFF	0 - 1	1				
14	SUBCOL CINOFST	-127 - +127	+5 Fixed				
15	SUBCNT CINOFST	-127 - +127	+5 Fixed				
16	N. APA R. OFST	-127 - +127	+7 Fixed				
17	BRIGHT R. OFST	-127 - +127	±0 Fixed				

● 3D Y/C SERVICE [effective only NV-55BX6]

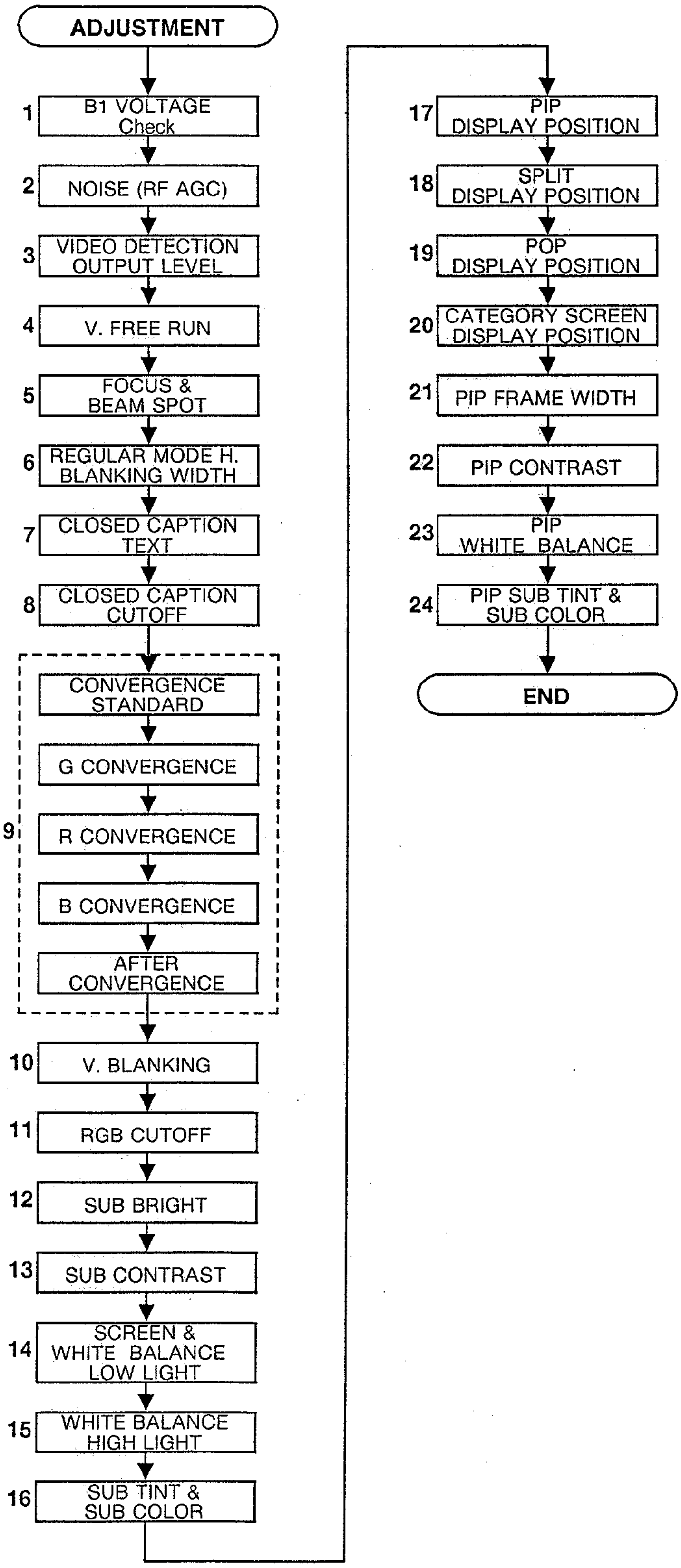
Since all adjustments of this item are fixed, use care not to disturb the values indicated in the table. If changed mistakenly, return the settings to the values indicated in the table.

Item No.	Adjustment item	Standard	Item No.	Adjustment item	Standard
1	SEP	0 Fixed	38	VAPINV	15 Fixed
2	NRMODE	0 Fixed	39	RES4	0 Fixed
3	SMODE	0 Fixed	40	RES5	0 Fixed
4	COMSEL	0 Fixed	41	RES6	1 Fixed
5	CSBPF	1 Fixed	42	SYNC	0 Fixed
6	YCDM	1 Fixed	43	CGAIN	1 Fixed
7	HPDS	1 Fixed	44	CFIL	1 Fixed
8	CKB	0 Fixed	45	CLPOSEL	0 Fixed
9	CKH	0 Fixed	46	CLPOS	0 Fixed
10	SCKB	0 Fixed	47	FRE1	0 Fixed
11	SCKH	0 Fixed	48	RES7	4 Fixed
12	MS1	0 Fixed	49	RES8	5 Fixed
13	MS0	0 Fixed	50	FRE2	0 Fixed
14	BPFS	0 Fixed	51	RES9	4 Fixed
15	KIL	0 Fixed	52	RES10	8 Fixed
16	DOOFF	1 Fixed	53	FRE3	0 Fixed
17	Y DELAY H	0 Fixed	54	RES11	1 Fixed
18	Y DELAY L	2 Fixed	55	RES12	3 Fixed
19	HRD BIT8	0 Fixed	56	RES13	6 Fixed
20	HRD BIT7-0	39 Fixed	57	RES14	7 Fixed
21	DYCOR	4 Fixed	58	RES15	8 Fixed
22	DYGAIN	6 Fixed	59	RES16	2 Fixed
23	DCCOR	4 Fixed	60	FRE4	0 Fixed
24	DCGAIN	6 Fixed	61	RES17	14 Fixed
25	VTR1	0 Fixed	62	RES18	0 Fixed
26	VTR0	0 Fixed	63	RES19	0 Fixed
27	SELJ	1 Fixed	64	RES20	0 Fixed
28	VTRR	5 Fixed	65	RES21	31 Fixed
29	RES1	0 Fixed	66	RES22	4 Fixed
30	RES2	0 Fixed	67	RES23	3 Fixed
31	RES3	0 Fixed	68	FRE5	0 Fixed
32	HSDR	7 Fixed	69	YNRK1	0 Fixed
33	WSCOR	7 Fixed	70	YNRINV	0 Fixed
34	BSDR	7 Fixed	71	FRE6	0 Fixed
35	WSDR1	15 Fixed	72	YNRK2	0 Fixed
36	WSDR2	15 Fixed	73	YNRLIM	0 Fixed
37	VAPGAIN	0 Fixed	74	ON/OFF	1 Fixed

6. ADJUSTMENT FLOWCHARTS

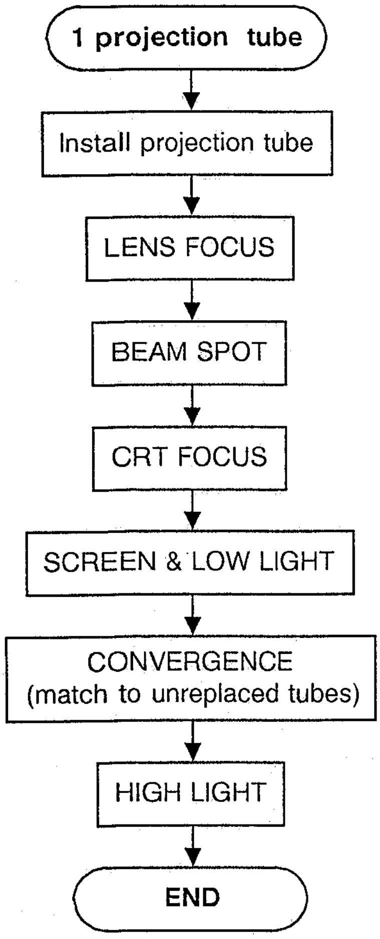
■ OVERALL ADJUSTMENT PROCEDURE

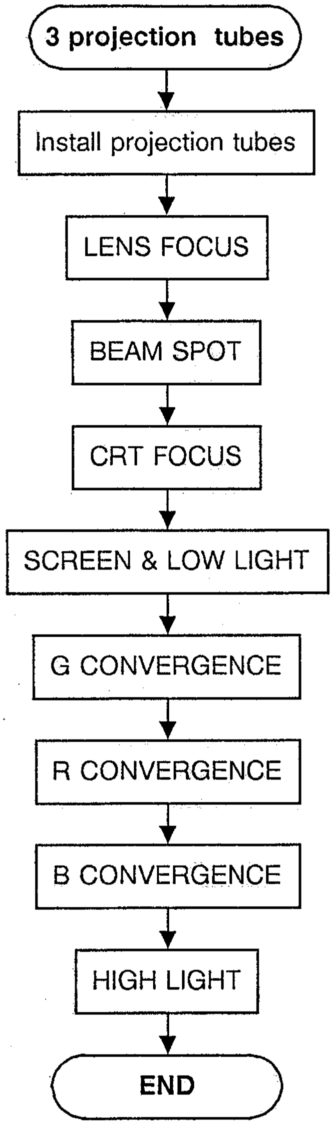
Perform each adjustment according to the flowchart. If performing an adjustment out of sequence, be sure to check the adjustments are correct for the previous steps.

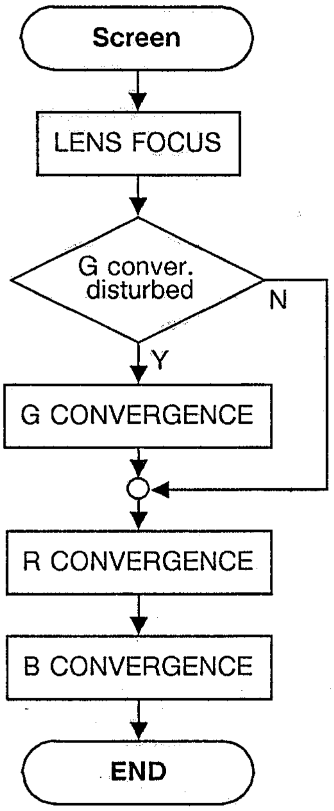

ADJUSTMENT
1 B1 VOLTAGE Check
2 NOISE (RF AGC)
3 VIDEO DETECTION OUTPUT LEVEL
4 V. FREE RUN
5 FOCUS & BEAM SPOT
6 REGULAR MODE H. BLANKING WIDTH
7 CLOSED CAPTION TEXT
8 CLOSED CAPTION CUTOFF
9
CONVERGENCE STANDARD
G CONVERGENCE
R CONVERGENCE
B CONVERGENCE
AFTER CONVERGENCE
10 V. BLANKING
11 RGB CUTOFF
12 SUB BRIGHT
13 SUB CONTRAST
14 SCREEN & WHITE BALANCE LOW LIGHT
15 WHITE BALANCE HIGH LIGHT
16 SUB TINT & SUB COLOR
17 PIP DISPLAY POSITION
18 SPLIT DISPLAY POSITION
19 POP DISPLAY POSITION
20 CATEGORY SCREEN DISPLAY POSITION
21 PIP FRAME WIDTH
22 PIP CONTRAST
23 PIP WHITE BALANCE
24 PIP SUB TINT & SUB COLOR
END

■WHEN REPLACING SCREEN AND PROJECTION TUBES

※ Contains only the main adjustments. Also confirm other adjustments as required.


1 projection tube
Install projection tube
LENS FOCUS
BEAM SPOT
CRT FOCUS
SCREEN & LOW LIGHT
CONVERGENCE (match to unreplaced tubes)
HIGH LIGHT
END


3 projection tubes
Install projection tubes
LENS FOCUS
BEAM SPOT
CRT FOCUS
SCREEN & LOW LIGHT
G CONVERGENCE
R CONVERGENCE
B CONVERGENCE
HIGH LIGHT
END

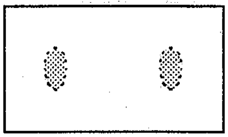
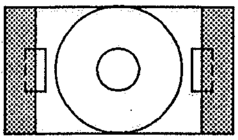
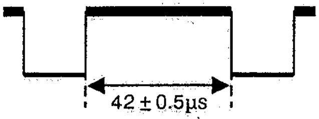
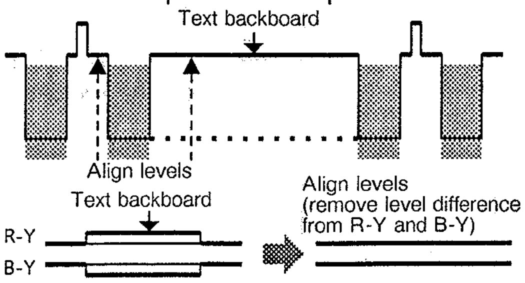

Screen
LENS FOCUS
G conver. disturbed
N
Y
G CONVERGENCE
R CONVERGENCE
B CONVERGENCE
END

7. ADJUSTING STEP

- Be sure to perform adjustments in the indicated sequence.
- "Item" indicated by ◆ ◆, as well as "Test point" and "Adjustment part" indicated by bracket [ ] refer to the respective PWB ASS'Ys for performing the adjustments.
- "Description" items indicated in parenthese < > are conducted using the remote controller.

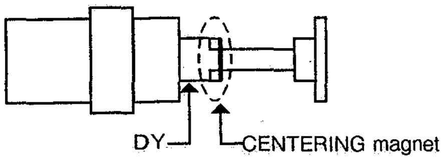
Item	Measuring instrument	Test point	Adjustment part	Description
1. B1 VOLTAGE check ◆POWER◆	**Pattern generator DC voltmeter**	**TP-130V**		1. Supply a color bar signal input. 2. Connect a DC voltmeter to TP-130V. 3. Confirm voltage is DC 130V ± 1V. ※ If voltage is incorrect, check the AC power supply voltage or circuit.
2. NOISE (RF AGC) ◆MI-COM◆ ◆TUNER◆	**Pattern generator**	**Screen**	**OTHERS 4 : NOISE VOL 1 [MI-COM] OTHERS 5 : NOISE VOL 2 [TUNER]**	1. Receive an ordinary broadcast signal. 2. At <OTHERS 4>, set the value to 63. 3. Adjust <OTHERS 4> to where noise disappears from the picture. 4. Check other channels and confirm normal reception. **[NV-55BX6 only]** 5. Set to the SPLIT display mode. 6. Receive the ordinary broadcast signal on both left and right screens. 7. At <OTHERS 5>, set the value to 63. 8. Adjust <OTHERS 5> to where noise disappears from the right screen. 9. Check other channels on the right screen and confirm normal reception.
3. VIDEO DETECTION OUTPUT LEVEL ◆MI-COM◆ ◆TUNER◆	**Pattern generator Oscilloscope [H-rate]**	**TP-12A [MI-COM] TP-12B [TUNER]**	**DET. OUT LEVEL1 VR (R131) [MI-COM] DET. OUT LEVEL2 VR (R131) [TUNER]**	1. Supply a color bar signal input that includes 100% white. 2. Connect oscilloscope to TP-12A. 3. Adjust DET. OUT LEVEL1 VR for 1Vp-p from white peak to the leading edge of the sync, signal. **[NV-55BX6 only]** 4. Connect oscilloscope to TP-12B. 5. Adjust DET. OUT LEVEL2 VR for 1Vp-p from white peak to the leading edge of the sync, signal.
● MTS related adjustment				**※ Do not perform adjustments related to MTS.**
4. V. FREE RUN ◆DEF.◆	**Pattern generator Oscilloscope [V-rate]**	**TP-VFREQ**	**V. FREQ. SW (S401) V. FREQ. VR (R472)**	1. Supply a color bar signal input. 2. Connect oscilloscope to TP-VFREQ 3. Set the V. FREQ. SW to S. 4. Adjust the V. FREQ. VR to set the vertical sync. signal to 16.2ms. 5. After adjusting, set the V. FREQ. SW to N.
5. FOCUS & BEAM SPOT ◆Mainframe◆ ◆CRT SOCKET◆	**Pattern generator Similar adhesive**	**Screen**	**R / G / B LENS FOCUS screw [Projection unit] R SCREEN VR (R367) G SCREEN VR (R368) B SCREEN VR (R369) [CRT SOCKET]**	1. Supply a crosshatch signal input. 2. Set the ASPECT mode to CINEMA I . **<LENS FOCUS>** 3. Adjust the SCREEN VRs indicated in the table to obtain a red signal color. 4. Turn the LENS FOCUS screw and adjust for optimum focus at the center of the screen. Check for absence of difference with respect to the perimeter focus. If the perimeter focus is strongly impaired, shift the center focus slightly so as to balance the overall focus. 5. In the same manner, produce green and blue signal colors and adjust their respective focus.

	SCREEN VR
R	G (R368) , B (R369)
G	R (R367) , B (R369)
B	R (R367) , G (R368)

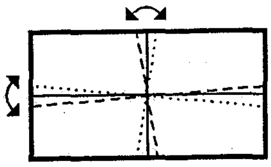
Item	Measuring instrument	Test point	Adjustment part	Description
	 CRT focus adjustment positions		**R FOCUS VR** **G FOCUS VR** **B FOCUS VR** **[FOCUS PACK]** **4 pole magnet** **2 pole magnet** **[Projection unit]**	**<BEAM SPOT>** 6. Supply Input a dot signal input. 7. Adjust the SCREEN VRs indicated in the table to obtain a red signal color. 8. Turn the R FOCUS VR to set the dot diameter to about 30mm. 9. Turn the 4 pole magnet of the projection unit CRT neck and adjust to where the dots at the screen center are nearly circular. 10. Return the R FOCUS VR to its original position. 11. Turn the 2 pole magnet of the CRT neck to minimize expansion of the dots. 12. Supply a crosshatch signal input. 13. Adjust the overall screen focus. 14. In the same manner, adjust for the green and blue signal colors. 15. Secure the 4 and 2 pole magnets with similar adhesive. **<CRT FOCUS>** 16. Input a crosshatch signal. 17. Adjust the SCREEN VRs indicated in the table to obtain a red signal color. 18. In the same manner, adjust for the green and blue signal colors. 19. After adjustment, return the SCREEN VRs to their original positions.
6. REGULAR H. BLANKING WIDTH **◆DEF.◆** **◆CRT SOCKET◆**	**Pattern generator**  Equalize the left and right concealed portions of the pictures.	**Screen**	**R SCREEN VR (R367)** **B SCREEN VR (R369)** **[CRT SOCKET]** **H. FREQ. VR (R511)** **[DEF.]**	1. Supply a crosshatch, mono-scope or other pattern which as symmetrical left and right sides. 2. Set the ASPECT mode to REGULAR. 3. Adjust the R and B SCREEN VRs to produce a green signal color. 4. As shown in the figure, adjust the H. FREQ. VR so that left and right side panel (black bands) widths and picture cutoff positions are equal. 5. After adjustment, return the SCREEN VRs to their original positions.
7. CLOSED CAPTION TEXT **◆MI-COM◆**	**Oscilloscope [H-rate]** 	**IC801 pin[24] or K804**	**C.C. H. SIZE transformer (T801)**	1. Supply a signal input that includes a closed caption signal. 2. Display the closed caption and select the TEXT mode from T1 to T4. 3. Connect oscilloscope to IC801 pin[24] 4. Adjust the C.C. H. SIZE transformer to set the pulse width at the waveform level center to 42 ±0.5µs.
8. CLOSED CAPTION CUTOFF **◆MI-COM◆**	**Oscilloscope [H-rate]**  Text backboard Align levels Text backboard R-Y B-Y Align levels (remove level difference from R-Y and B-Y)	**TP-Y** **TP-RY** **TP-BY**	**Y CUTOFF VR (R136)** **R-Y CUTOFF VR (R139)**	1. Supply a signal input that includes a closed caption signal. 2. Display the closed caption and select the TEXT mode from T1 to T4. 3. Connect oscilloscope to TP-Y. 4. Adjust the Y CUTOFF VR to align the levels of the text backboard component and pedestal. 5. Connect oscilloscope to TP-RY and TP-BY. 6. Adjust the R-Y CUTOFF VR to align the text backboard component with the normal video color difference signals (R-Y and B-Y) (Set the oscilloscope voltage range as low as possible.) . 7. Repeat the above steps 3 - 6 until deviations are removed.

Item	Measuring instrument	Test point	Adjustment part	Description
9. CONVERGENCE				
9-1 CONVERGENCE STANDARD adjustment **◆CONVER.◆** **◆CRT SOCKET◆**	**Pattern generator** **Oscilloscope [1µs / Div]**	**Screen** **TP-H.B1** **TP-H.B2**	**BLK SW (S101)** **PD connector** **[CONVER.]** **G DY** **R DY** **B DY** **G CENTERING magnet** **R CENTERING magnet** **B CENTERING magnet** **[DY attachment]** **R SCREEN VR (R367)** **B SCREEN VR (R369)** **[CRT SOCKET]** **PICTURE 28 : DAC V. WIDTH** **H. B-PHASE VR (R137)** **[CONVER.]**	• *Confirm standard adjustment value settings for* PICTURE SERVICE and OTHERS. • Confirm correct FOCUS adjustment. • Confirm VERTICAL POSITION and VERTICAL SIZE user controls are set to 0. 1. Set the BLK SW to N. 2. Disconnect the PD connector (for convergence power supply). 3. Supply a crosshatch signal input. **< DEFLECTION YOKE TILT >** 4. Check that the G -DY is secured it at the topmost part of the CRT neck. 5. Adjust the G-DY tilt so that the vertical and horizontal lines are respectively vertical and horizontal. Also adjust for optimum focus at the screen center. 6. After adjusting. firmly tighten the G-DY screw at the adjusted position. 7. In the same manner, adjust the tilt of the R and B deflection yokes. 8. After adjusting G, R and B, check for optimum focus at the center of the screen. If adjustment is deviated, repeat the above procedure from step 4 onward. **< RASTER CENTERING >** 9. Adjust the CENTERING magnet of the G-DY to overlap the G image (lines) at the vertical and horizontal center. 10. Adjust the CENTERING magnet of the R-DY to overlap the G image (lines) at the vertical and horizontal center positions with the R image. 11. In the same manner, adjust the CENTERING magnet of the B-DY. * If the R and B images cannot be overlapped with the center G image, first overlap and horizontal lines, then adjust the vertical lines to as close to overlapping as possible. **< FULL & REGULAR V. SIZE >** 12. Reduce the R and B SCREEN VRs to produce a green single color. 13. Adjust < Picture 28 > to set the vertical amplitude to 92.5%. 14. Switch the ASPECT mode to REGULAR and set the < PICTURE 28 > to the same value as FULL. **< H. BLANKING >** 15. Connect a dual-trace oscilloscope to TP-H.B1 and TP-H.B2. 16. Adjust the H. B-PHASE VR to set the TP-H.B2 waveform 0.5µs ahead of the TP-H.B1 waveform. 17. After completing all the above adjustments, install the PD connector to the original location. 18. Set all the VRs indicated in Table A to center positions.

[Projection unit]

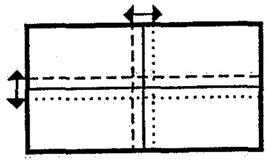


< DEFLECTION YOKE TILT >



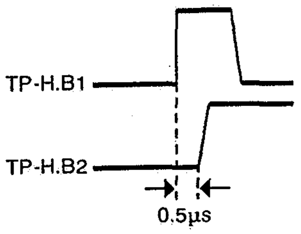
Remove H and V tilt.

< RASTER CENTERING >



With G as reference, overlap G, R and B lines at center.

< H. BLANKING >

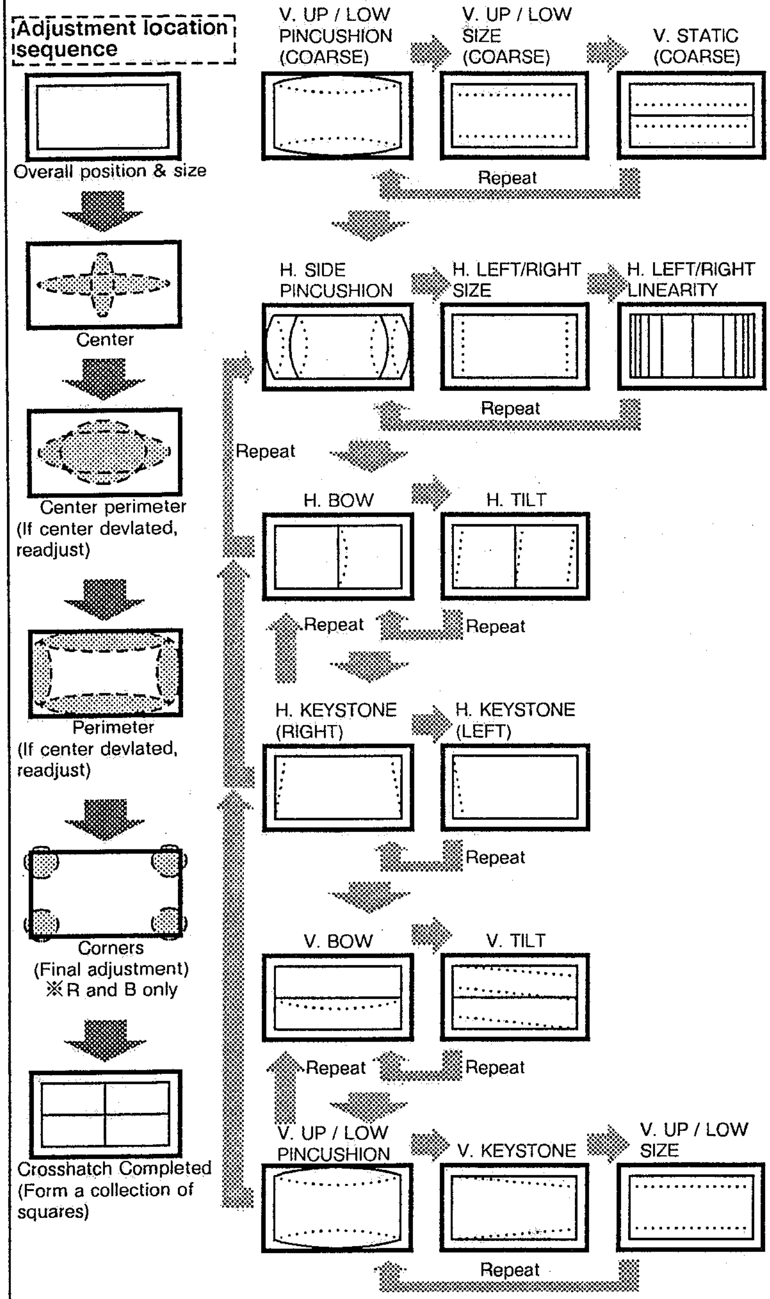


	Adjust. part	Symbol
RV	V3	R595
BV	V3	R695
RV	PIN-B	R579
BV	PIN-B	R679
GV	VS-H3	R489
RV	VS-H3	R589
BV	VS-H3	R689
RV	UP-KEYS	R585
BV	UP-KEYS	R685
RV	L-KEYS	R586
BV	L-KEYS	R686
RV	L-UP-KEYS	R587
BV	L-UP-KEYS	R687
RV	LIN	R583
BV	LIN	R683

Table A

Item	Measuring instrument	Test point	Adjustment part	Description
9-2 G CONVERGEBCE (HORIZONTAL) ◆CONVER.◆ ◆CRT SOCKET◆	Pattern generator	Screen	[See figure (page 1-25)]	● Supply a crosshatch signal input. ● Reduce the R and B SCREEN VRs to produce a green single color. ※ Basically adjust without using the VRs indicated in Table A. **1) V. PINCUSHION, SIZE and STATIC coarse adjustments** * Since these adjustments are used for subsequent adjustments, they are approximate. 1. Adjust the V. PIN VR for straight horizontal lines at the top and bottom of the screen. 2. Adjust the UP SIZE and LOW SIZE VRs to set the vertical amplitude (size) to 92.5% at both the top and bottom. 3. Adjust the GV-STATIC VR to set the image (pattern) to the vertical center. 4. Repeat the above steps 1 - 3. **2) SIDE PINCUSSION, H. SIZE, LINEARITY and STATIC coarse adjustments (approximate)** 1. Adjust the L-PIN and R-PIN VRs so that the second (or third) vertical lines from the left and right edges are straight. In this case, provided the lines are straight, they may be inclined. 2. Adjust the L-PIN2 and R-PIN2 VRs so that the first vertical lines from the left and right edged are straight. In this case, provided the lines are straight, they may be inclined. 3. Adjust the L-SIZE and R-SIZE VRs to set the horizontal amplitude (size) to 92.5% at both top and bottom. 4. Adjustment the L-LIN and R-LIN VRs for uniform spacing between horizontal lines. 5. Adjust the GH-STATIC VR to center the image (pattern) in the horizontal direction. 6. Repeat the above steps 1 - 3. **3) H. BOW, TILT and STATIC (CENTER)** 1. Adjust the H. BOW VR to straighten the vertical lines at the center of the screen. 2. Adjust the H. KEY VR so that the vertical lines (straight lines) at the center of the screen are vertical. 3. Adjust the GH-STATIC VR to center the image (prttern) in the horizontal direction. 4. Repeat the above steps 1 - 3. **4) SIDE PINCUSSION, H. SIZE, LINEARITY and STATIC fine adjustments** ● Perform adjustment according to above item 2) staps 1 - 6. **5) H. KEYSTONE distortion** 1. Check the adjustments of the above sectuon 3). If deviated, readjust. 2. Adjust the H. KEYS VR to straighten the vertical line at the right edge of the screen. Although the left edge is also varied, perform this adjustment for the right edge. 3. Adjust the H. L-KEYS VR to straighten the vertical line at the left edge of the screen. 4. Check the adjustments of the above section 2). If deviated, readjust. 5. Repeat the adjustments of the above steos 1 - 4. **6) Repeat the above sections 3) - 5)**

■CONVERGENCE ADJUSTMENT PROCEDURE■


Adjustment location sequence
Overall position & size
Center
Center perimeter (If center devlated, readjust)
Perimeter (If center devlated, readjust)
Corners (Final adjustment) ※R and B only
Crosshatch Completed (Form a collection of squares)
V. UP / LOW PINCUSHION (COARSE)
V. UP / LOW SIZE (COARSE)
V. STATIC (COARSE)
Repeat
H. SIDE PINCUSHION
H. LEFT/RIGHT SIZE
H. LEFT/RIGHT LINEARITY
Repeat
Repeat
H. BOW
H. TILT
Repeat
Repeat
H. KEYSTONE (RIGHT)
H. KEYSTONE (LEFT)
Repeat
V. BOW
V. TILT
Repeat
Repeat
V. UP / LOW PINCUSHION
V. KEYSTONE
V. UP / LOW SIZE
Repeat

[NOTE]

1. Expect for the coarse adjustments, perform the adjustment steps repeatedly until precise adjustment is obtained.
2. After completing one adjustment step, be sure to confirm the adjustment of the previous step.
3. Perform each step while checking the H (V) static (center position) . If deviated, correct as required.

Item	Measuring instrument	Test point	Adjustment part	Description
9-2 G CONVERGENCE (VERTICAL) ◆CONVER.◆ ◆CRT SOCKET◆	Pattern generator	Screen	[See figure (page 1-25)]	**7) V. BOW, TILT and STATIC** 1. Adjust the V. BOW VR to straighten the horizontal lines at the center of the screen. 2. Adjust the V. KEY VR so that the horizontal lines (straight lines) at the screen center are horizontal. 3. Adjust the GV-STATIC VR to center the image (pattern) in the vertical direction. 4. Repeat the above steps 1 - 3. **8) V. PINCUSHION, KEYSTONE and TOP & BOTTOM SIZE fine adjustment** 1. Adjustment the V. PIN VR to straighten the horizontal lines at both the top and bottom edges of the screen. 2. Adjustment the V. KEYS VR so that the horizontal lines (straight lines) at the top and bottom edges of the screen are horizontal. 3. Adjust the UP-SIZE and LOW-SIZE VRs to respectively set the top and bottom vertical amplitude (size) to 92.5%. 4. Adjust the GV-STATIC VR to center the image (pattern) in the vertical direction. 5. Repeat the above steps 1 - 4. 9) Check the adjustments of the above section 7). Readjust if deviated. 10) Check the adjustments of the above section 8). Readjust if deviated. **■PANORAMA mode** 1. Set the ASPECT mode to PANORAMA. 2. Adjust <PICTURE 28> and <PICTURE 29>to set the vertical amplitude to 85%. 3. Adjust <PICTURE 30> and <PICTURE 31> so that the vertical lines are well balanced vertically. 4. Adjust the PANORAMA V. KEYS VR so that the horizontal lines at both top and bottom edges of the screen are horizontal. 5. Adjust the PANORAMA H.L-SIZE and PANORAMA H. R-SIZE VRs to set the horizontal amplitude to 92.5%. **■CINEMA I mode** 1. Set the ASPECT mode to CINEMA I. 2. Adjust <PICTURE 28> and <PICTURE 29> to set the vertical amplitude to 67%. 3. Adjust <PICTURE 30> and <PICTURE 31> so that the vertical lines are well balanced vertically. 4. Adjust the CINEMA I V. KEYS VR so that the horizontal lines at both top and bottom edges of the screen are horizontal. 5. Adjust the CINEMA H. L-SIZE and CINEMA H. R-SIZE VRs to set the horizontal amplitude to 92.5%. **■CINEMA II mode** • Adjust in the same manner as CINEMA I. Refer to Table C regarding adjustment items and VRs (Refer to Table B regarding vertical and horizontal amplitude). * Do not change the <PICTURE 35> adjustment value. * Do not change the <PICTURE 29> adjustment value during the FULL and REGULAR modes.

■V & H amplitudes for each screen size

ASPECT	V	H
FULL	92.5%	92.5%
PANORAMA	85%	92.5%
CINEMA I	67%	92.5%
CINEMA II	61%	92.5%
REGULAR	92.5%	92.5%

Table B

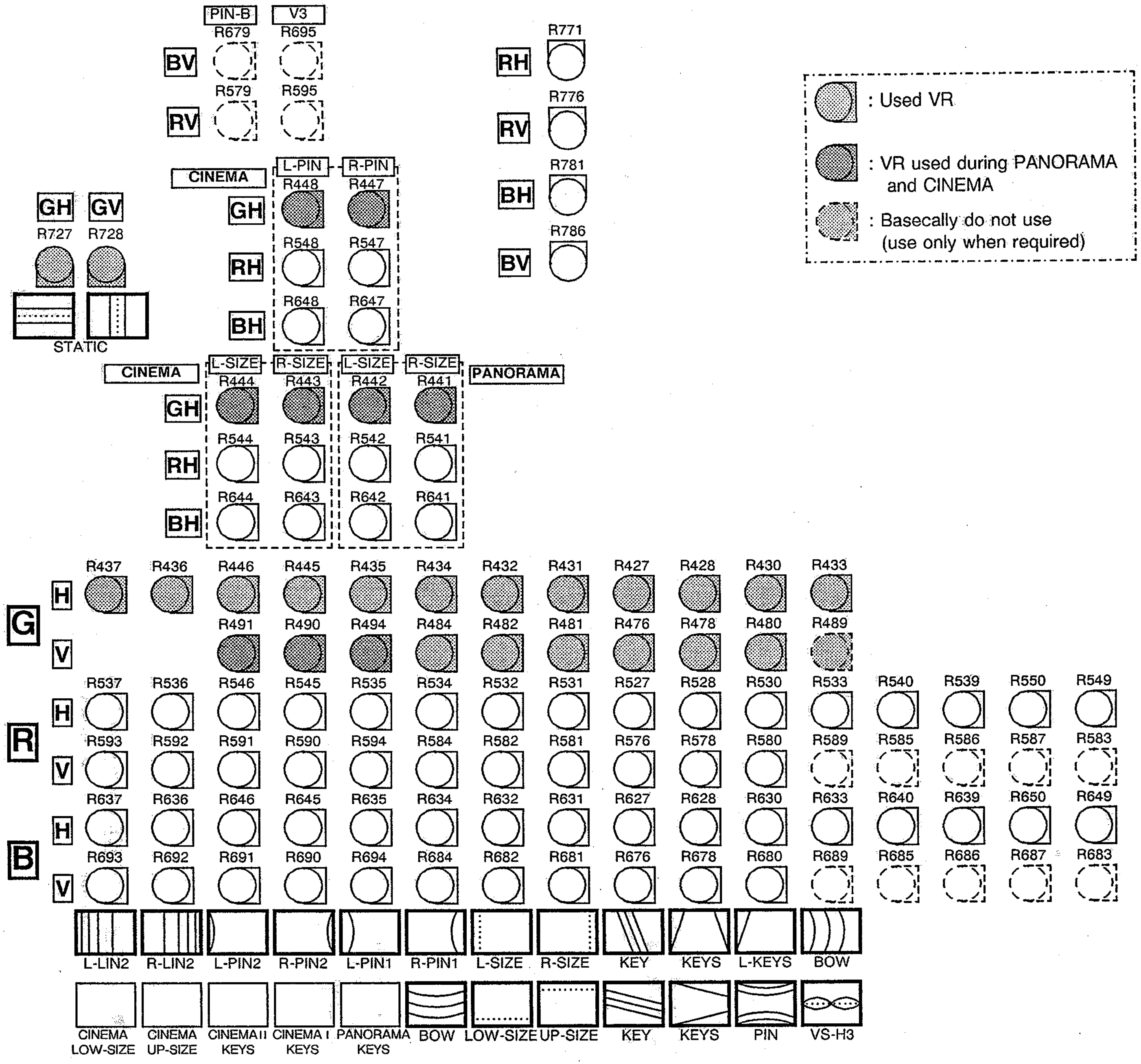
Adjustment	PANORAMA	CINEMA I	CINEMA II
V. SIZE	PICTURE 28	PICTURE 28	PICTURE 28
V. POSITION	PICTURE 29	PICTURE 29	PICTURE 29
KEYSTONE	PICTURE 30	PICTURE 30	PICTURE 30
SIDE PINCUSHION	PICTURE 31	PICTURE 31	PICTURE 31
V. KEYSTONE	V. KEYS VR (R494)	CINEMA I V. KEYS VR (R490)	CINEMA II V. KEYS VR (R491)
H. LEFT / RIGHT SIZE	H. R-SIZE VR (R441) H. L-SIZE VR (R442)	H. R-SIZE VR (R443) H. L-SIZE VR (R444)	H. R-SIZE VR (R.443) H. L-SIZE VR (R444)

Table C

■ G CONVERGENCE ADJUSTMENT VR LOCATION

■ G CONVERGENCE
basic adjustment procedure

		VR symbol
1)	1	R480
	2	R481 + R482
	3	R728
2)	1	R434 + R435
	2	R445 + R446
	3	R431 + R432
	4	R436 + R437
	5	R727
3)	1	R433
	2	R427
	3	R727
4)		= 2)
5)	1	= 3)
	2	R428
	3	R430
	4	= 2)
6)		= 3) to 5)
7)	1	R484
	2	R467
	3	R728
8)	1	R480
	2	R478
	3	R481 + R482
	4	R728
9)		= 7)
10)		= 8)


: Used VR
: VR used during PANORAMA and CINEMA
: Basecally do not use (use only when required)
PIN-B
V3
BV
R679
R695
RV
R579
R595
RH
R771
RV
R776
BH
R781
BV
R786
GH
GV
R727
R728
STATIC
CINEMA
L-PIN
R-PIN
GH
R448
R447
RH
R548
R547
BH
R648
R647
CINEMA
L-SIZE
R-SIZE
L-SIZE
R-SIZE
PANORAMA
GH
R444
R443
R442
R441
RH
R544
R543
R542
R541
BH
R644
R643
R642
R641
G
H
R437
R436
R446
R445
R435
R434
R432
R431
R427
R428
R430
R433
V
R491
R490
R494
R484
R482
R481
R476
R478
R480
R489
R
H
R537
R536
R546
R545
R535
R534
R532
R531
R527
R528
R530
R533
R540
R539
R550
R549
V
R593
R592
R591
R590
R594
R584
R582
R581
R576
R578
R580
R589
R585
R586
R587
R583
B
H
R637
R636
R646
R645
R635
R634
R632
R631
R627
R628
R630
R633
R640
R639
R650
R649
V
R693
R692
R691
R690
R694
R684
R682
R681
R676
R678
R680
R689
R685
R686
R687
R683
L-LIN2
R-LIN2
L-PIN2
R-PIN2
L-PIN1
R-PIN1
L-SIZE
R-SIZE
KEY
KEYS
L-KEYS
BOW
CINEMA LOW-SIZE
CINEMA UP-SIZE
CINEMA II KEYS
CINEMA I KEYS
PANORAMA KEYS
BOW
LOW-SIZE
UP-SIZE
KEY
KEYS
PIN
VS-H3

Item	Measuring instrument	Test point	Adjustment part	Description
9-3 **R CONVERGENCE** **◆CONVER.◆** **◆CRT SOCKET◆**	**Pattern generator**	**Screen**	**[See figure (page 1-27)]**	● Adjustment is basically the same as G CONVERGENCE, but includes additional VRs. The additional VRs for R only are indicated in Table D. 1. Reduce the B SCREEN VR to leave only R and G. 2. In the same manner as G CONVERGENCE, adjust to overlap the R crosshatch on the G crosshatch. 3. As required, adjust the VRs indicated in Table D. 4. Refer to Table E and adjust the convergence for each aspect mode.

■VRs for R & B CONVERGENCE

Adjustment part	Symbol		Adjustment
	R	B	
H. R-LIN1 VR	R539	R639	H. LINEARITY
H. L-LIN1 VR	R540	R640	H. LINEARITY
V. PIN-B VR	R579	R679	V. UP / LOW PIN
V. UP-KEYS VR	R583	R683	V. KEYSTONE
V. LOW-KEYS VR	R585	R685	V. KEYSTONE
V. UP-L-KEYS VR	R586	R686	V. KEYSTONE
V3 VR	R595	R695	V3

Table D

* Ordinarily, adjust without using the VRs indicated in Table D. Use these only if required.

Item	Measuring instrument	Test point	Adjustment part	Description
9-4 **B CONVERGENCE** **◆CONVER.◆** **◆CRT SOCKET◆**	**Pattern generator**	**Screen**	**[See figure (page 1-27)]**	● Adjustment is basically the same as G CONVERGENCE, but includes additional VRs. The additional VRs for B only are indicated in Table D. 1. Return the B SCREEN VR to the original position and display G, R and B. 2. In the same manner as G CONVERGENCE, adjust to overlap the B crosshatch on the G or yellow crosshatch. 3. As required, adjust the VRs indicated in Table D. 4. Refer to Table E and adjust the convergence for each aspect mode.
9-5 **AFTER CONVERGENCE adjustment** **◆CONVER.◆**	**Pattern generator**	**Screen**	**RH / RV / BH / BV STATIC VR [CONVER.]** **R / G / B CENTERING magnet**	1. After completing all CONVERGENCE adjustments, return the RH, RV, BH and BV STATIC VRs to center positions. 2. Use the CENTERING magnets of the R, G and B deflection yokes to adjust the centering of each image. * First,set the G image (lines) to the center of the screen, then align the R and B images (lines) with G. * If adjustment cannot be completed with only the CENTERING magnets, adjust to bring R and B as close as possibleto G, then use the STATIC VRs to align R and B with G.

■R & B CONVERGENCE VRs in each ASPECT mode

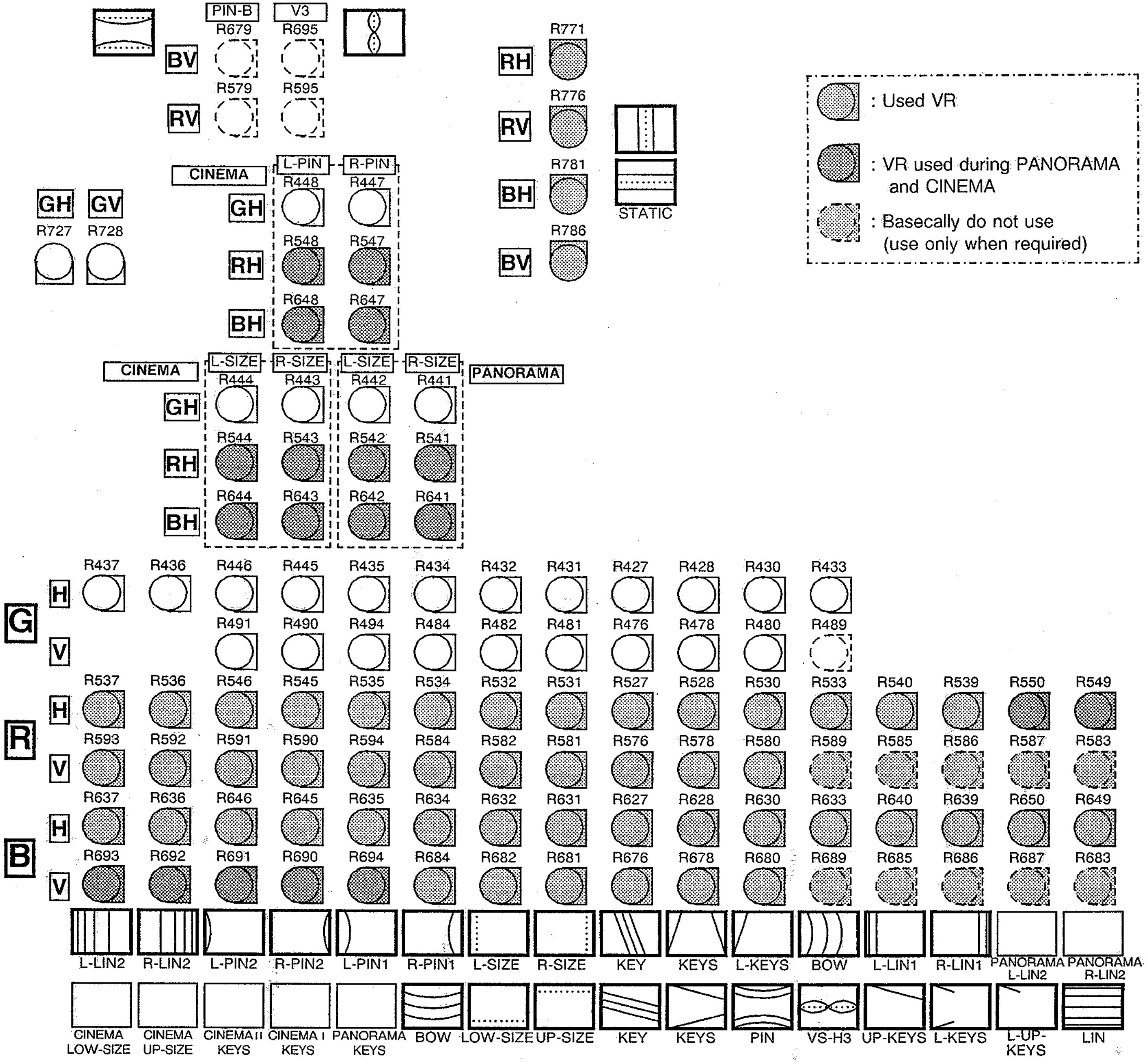
Adjustment	PANORAMA	Symbol		CINEMA I	Symbol		CINEMA II	Symbol	
		R	B		R	B		R	B
V. UP / LOW SIZE	—			V. UP-SIZE VR	R592	R692	V. UP-SIZE VR	R592	R692
	—			V LOW-SIZE VR	R593	R693	V LOW-SIZE VR	R593	R693
V. KEYSTONE	V. KEYS VR	R594	R694	CINEMA I V. KEYS VR	R590	R690	CINEMA II V. KEYS VR	R591	R691
SIDE PINCUSHION	—			H. R-PIN VR	R547	R647	H. R-PIN VR	R547	R647
	—			H. L-PIN VR	R548	R648	H. L-PIN VR	R548	R648
H. LEFT / RIGHT SIZE	H. R-SIZE VR	R541	R651	H. R-SIZE VR	R543	R643	H. R-SIZE VR	R543	R643
	H. L-SIZE VR	R542	R642	H. L-SIZE VR	R544	R644	H. L-SIZE VR	R544	R644
H. LEFT / RIGHT LINEARITY	H. R-LIN2 VR	R549	R649	—			—		
	H. L-LIN2 VR	R550	R650	—			—		

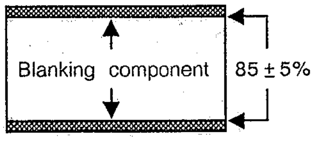
Table E

■R & B CONVERGENCE ADJUSTMENT VR LOCATION

■ R & B CONVERGENCE basic adjustment procedure

		VR symbol	
		R	B
1)	1	R580	R680
	2	R581 + R582	R681 + R682
	3	R776	R786
2)	1	R534 + R535	R634 + R635
	2	R545 + R546	R645 + R646
	3	R531 + R532	R631 + R632
	4	R536 + R537	R636 + R637
	5	R771	R781
3)	1	R533	R633
	2	R527	R627
	3	R771	R781
4)		= 2)	= 2)
5)	1	= 3)	= 3)
	2	R528	R628
	3	R530	R630
	4	= 2)	= 2)
6)		= 3) to 5)	= 3) to 5)
7)	1	R584	R684
	2	R567	R667
	3	R776	R786
8)	1	R580	R680
	2	R578	R678
	3	R581 + R582	R681 + R682
	4	R776	R786
9)		= 7)	= 7)
10)		= 8)	= 8)


: Used VR
: VR used during PANORAMA and CINEMA
: Basecally do not use (use only when required)
PIN-B
V3
R679
R695
R579
R595
BV
RV
GH
GV
R727
R728
CINEMA
L-PIN
R-PIN
R448
R447
R548
R547
R648
R647
GH
RH
BH
RH
RV
BH
BV
R771
R776
R781
R786
STATIC
CINEMA
L-SIZE
R-SIZE
L-SIZE
R-SIZE
PANORAMA
R444
R443
R442
R441
R544
R543
R542
R541
R644
R643
R642
R641
G
R
B
H
V
R437
R436
R446
R445
R435
R434
R432
R431
R427
R428
R430
R433
R491
R490
R494
R484
R482
R481
R476
R478
R480
R489
R537
R536
R546
R545
R535
R534
R532
R531
R527
R528
R530
R533
R540
R539
R550
R549
R593
R592
R591
R590
R594
R584
R582
R581
R576
R578
R580
R589
R585
R586
R587
R583
R637
R636
R646
R645
R635
R634
R632
R631
R627
R628
R630
R633
R640
R639
R650
R649
R693
R692
R691
R690
R694
R684
R682
R681
R676
R678
R680
R689
R685
R686
R687
R683
L-LIN2
R-LIN2
L-PIN2
R-PIN2
L-PIN1
R-PIN1
L-SIZE
R-SIZE
KEY
KEYS
L-KEYS
BOW
L-LIN1
R-LIN1
PANORAMA L-LIN2
PANORAMA R-LIN2
CINEMA LOW-SIZE
CINEMA UP-SIZE
CINEMA II KEYS
CINEMA I KEYS
PANORAMA KEYS
BOW
LOW-SIZE
UP-SIZE
KEY
KEYS
PIN
VS-H3
UP-KEYS
L-KEYS
L-UP-KEYS
LIN

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr>
<td>10.V. BLANKING
◆CONVER.◆</td>
<td>Pattern generator</td>
<td>Screen

 </td>
<td>BLK. SW
(S101)
OTHERS 6 :
V. BLK</td>
<td>● Confirm that CONVERGENCE adjustment (V. size, V. linearity) is properly adjusted.
1. Supply a crosshatch signal input or a video signal that is symmetrical top and bottom.
2. Set the BLK. SW to S (blanking component appears at the screen to top and bottom) .
3. Adjust <OTHERS 6> so that blanking is applied at 85 ± 5% respectively at the top and bottom of the picture.
4. After adjustment, return the BLK. SW to N (blanking component no longer appears at the screen top and bottom) .</td>
</tr>
<tr>
<td>11.CUTOFF
◆CRT SOCKET◆</td>
<td>Pattern generator</td>
<td>TP-R
TP-G
TP-B</td>
<td>OTHERS 13 :
RGB SW
PICTURE 7 :
R CUT 0-3
PICTURE 8 :
R CUTOFF
PICTURE 9 :
G CUTOFF
PICTURE 10 :
B CUT 0-3
PICTURE 11 :
B CUTOFF</td>
<td>1. Supply a crosshatch signal input.
2. Set <OTHERS 13> to 0.
3. Connect a DC voltmeter to TP-R.
4. Adjust <PICTURE 8> to obtain DC190V.
* If adjustment is inadequate, change to <PICTURE 7> and adjust.
5. Similarly, adjust <PICTURE 9> to obtain DC190V at TP-G.
6. Similarly, adjust <PICTURE 10> and <PICTURE 11> to obtain DC190V at TP-B.
7. Set the AV STATUS to THEATER and BRIGHT ROOM. Adjust each of these to the same values obtained in the above steps 3 - 6.
8. After adjustment, set <OTHERS 13> to 1.</td>
</tr>
<tr>
<td>12.SUB BRIGHT</td>
<td>Pattern generator</td>
<td>Screen</td>
<td>PICTURE 3 :
SUB BRIGHT</td>
<td>● Confirm correct CUTOFF adjustment.
1. Receive an ordinary broadcast.
2. Adjust <PICTURE 3> for optimum brightness.
3. Set the AV STATUS to THEATER and BRIGHT ROOM. Adjust each of these to the same values obtained in the above steps 2.</td>
</tr>
<tr>
<td>13.SUB CONTRAST</td>
<td>Pattern generator
■Offset value
<table><tr><th>AV STATUS</th><th>PICTURE 4</th></tr><tr><td>THEATER</td><td>15</td></tr></table></td>
<td>Screen</td>
<td>PICTURE 4 :
SUB CONT.</td>
<td>● Confirm correct SUB BRIGHT adjustment.
1. Receive an ordinary broadcast.
2. Adjust <PICTURE 4> or optimum contrast.
3. Set the AV STATUS to THEATER and add the offset value indicated the table.
4. Set the AV STATUS to BRIGHT ROOM and adjust to the same values obtained in the above steps 2.</td>
</tr>
<tr>
<td>14.SCREEN &
WHITE
BALANCE
LOW LIGHT
◆CRT SOCKET◆</td>
<td>Pattern generator
<table><tr><th></th><th>OTHERS 10</th><th>OTHERS 11</th><th>OTHERS 12</th></tr><tr><td>R</td><td>1</td><td>0</td><td>0</td></tr><tr><td>G</td><td>0</td><td>1</td><td>0</td></tr><tr><td>B</td><td>0</td><td>0</td><td>1</td></tr></table></td>
<td>Screen</td>
<td>R SCREEN VR
(R367)
G SCREEN VR
(R368)
B SCREEN VR
(R369)
OTHERS 10 :
R OFF
OTHERS 11 :
G OFF
OTHERS 12 :
B OFF</td>
<td>● Confirm correct SUB CONTRAST adjustment.
1. Supply a grayscale signal input or a color bar signal input the color component cut off.
2. Refer to the table and produce a green signal color.
3. Adjust the G SCREEN VR to where the black component does not glow.
4. In the same manner, respectively adjust red and blue signal colors with the R and B SCREEN VRs.
5. Set all <OTHERS> values indicated in the table to 1 and confirm white balance at low light. If white balance is not obtained, repeat the above step 4. In this case however, after adjusting the G SCREEN VR once, do not change its setting.</td>
</tr>
</table>

Item	Measuring instrument	Test point	Adjustment part	Description
15. WHITE BALANCE HIGH LIGHT	Pattern generator	Screen	PICTURE 12 : R DRV 0-1 PICTURE 13 : R DRIVE PICTURE 14 : B DRV 0-1 PICTURE 15 : B DRIVE	● Confirm proper WHITE BALANCE LOW LIGHT adjustment. 1. Supply an all white signal input. 2. Adjust <PICTURE 13> and <PICTURE 15> to obtain an overall white screen. If necessary, adjust while switching to <PICTURE 12> and <PICTURE 14>. 3. Input a crosshatch signal and confirm low light white balance. If deviated, perform low light adjustment and repeat steps 2 of this section. 4. Repeat the above steps 1 - 3 and adjust the white balance. 5. Set the AV STATUS to THEATER and BRIGHT ROOM. After respectively adjust the offset values indicated in the table to each of these, perform fine adjustment.

■Offset values

AV STATUS	PICTURE 13	PICTURE 15
THEATER	+25	-25
BRIGHT ROOM	0	0

Item	Measuring instrument	Test point	Adjustment part	Description
16. SUB COLOR & SUB TINT ◆CRT SOCKET◆	Pattern generator	Screen TP-R TP-B	PICTURE 1 : SUB COLOR PICTURE 2 : SUB TINT PICTURE 45 : DEMO GAIN	● Confirm proper WHITE BALANCE HIGH LIGHT adjustment. 1. Supply a color bar signal input. 2. Adjust <PICTURE 1> and <PICTURE 2> for optimum picture. 3. Set the AV STATUS to THEATER and similarly adjust for optimum picture. 4. Set the AV STATUS to BRIGHT ROOM and set to same values obtained in above step 2. **■Adjustment using oscilloscope** 1. Supply a color bar signal. 2. Connect oscilloscope to TP-R. 3. Adjust <PICTURE 1> and <PICTURE 2> to set components A and B in the figure to the values indicated in Table 1. 4. Connect the oscilloscope to TP-B. 5. Adjust <PICTURE 45> to set component C of the figure to the value C of Table 1. 6. Set the AV STATUS to THEATER and adjust for the values indicated in Table 1. 7. Set the AV STATUS to BRIGHT ROOM and the offset values indicated in Table 2.

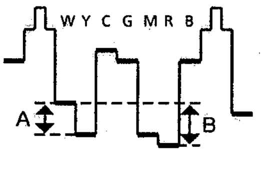
AV STATUS	A:W-Y	B:W-R	C:W-B
RESET	+13	+8	-12
THEATER	+4	+3	-10

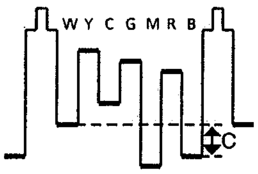
Table 1

■Offset values

AV STATUS	PICTURE 1	PICTURE 2	PICTURE 45
BRIGHT ROOM	0	0	0

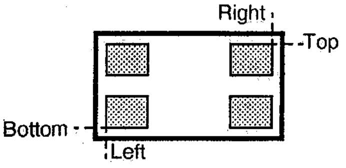
Table 2

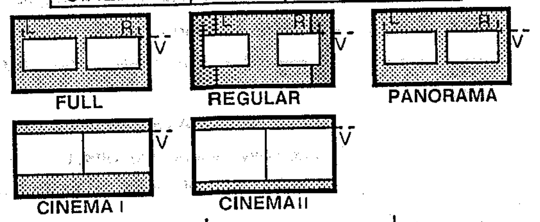


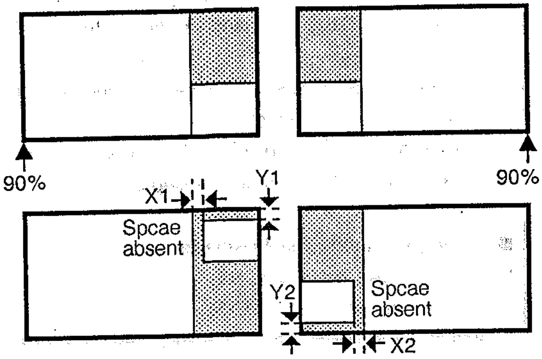


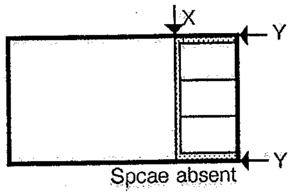
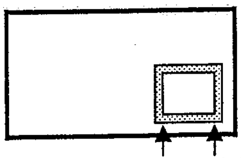
Item	Measuring instrument	Test point	Adjustment part	Description
17. PIP DISPLAY POSITION	Pattern generator	Screen	PIP 2 : V POSI T PIP PIP 3 : V POSI B PIP PIP 4 : H POSI L PIP PIP 5 : H POSI R PIP	● Conform correct CONVERGENCE and deflection system adjustments. 1. Set to the PIP mode and display the sub picture. 2. Supply a crosshatch or other vertically symmetrical signal to both the main and sub screens. 3. Adjust <PIP 2>, <PIP 3>, <PIP 4> and <PIP 5> to set the sub-picture distance from the screen edge as indicated in the table for each aspect mode.

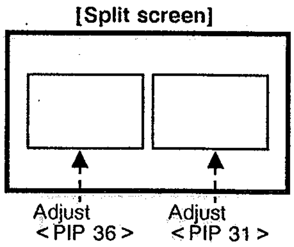
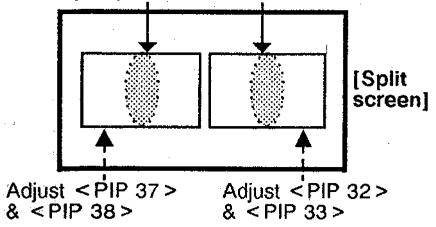
Item	PIP 2	PIP 3	PIP 4	PIP 5
[Position]	Top	Bottom	Left	Right
FULL	20mm	20mm	45mm	45mm
REGULAR	20mm	20mm	45mm	45mm
PANORAMA	30mm	30mm	50mm	50mm
CINEMA I	40mm	40mm	45mm	45mm
CINEMA II	40mm	40mm	45mm	45mm



<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>**18.SPLIT DISPLAY POSITION**</td><td>**Pattern generator**</td><td>**Screen**</td><td rowspan="2">**PIP 8 :**
V POSI SPL
PIP 9 :
H POSI L SPL
PIP 10 :
H POSI R SPL</td><td rowspan="2">● Conform correct CONVERGENCE and deflection system adjustments.
1. Set to the SPLIT display mode.
2. Supply a crosshatch or other vertically symmetrical signal to both the main and sub screens.
3. Adjust <PIP 8>, <PIP 9> and <PIP 10> to set the split picture distance from the screen edge as indicated in the table for each aspect mode.</td></tr>
<tr><td colspan="3">
<table>
<tr><th>Item</th><th>PIP 8</th><th>PIP 9</th><th>PIP 10</th></tr>
<tr><td>[Position]</td><td>Vert.</td><td>Left</td><td>Right</td></tr>
<tr><td>FULL</td><td>150mm</td><td>45mm</td><td>45mm</td></tr>
<tr><td>REGULAR</td><td>150mm</td><td>100mm</td><td>100mm</td></tr>
<tr><td>PANORAMA</td><td>130mm</td><td>50mm</td><td>50mm</td></tr>
<tr><td>CINEMA I</td><td>80mm</td><td colspan="2" rowspan="2">Adjust to overlap the left and right screens at the center.</td></tr>
<tr><td>CINEMA II</td><td>60mm</td></tr>
</table>


</td></tr>
<tr><td>**19.POP DISPLAY POSITION**

</td><td>**Pattern generator**</td><td>**Screen**</td><td>**OTHERS 8 :**
H. POSI L
OTHERS 9 :
H. POSI R

PIP 12 :
V POSI T POP
PIP 13 :
V POSI B POP
PIP 14 :
H POSI L POP
PIP15 :
H POSI R POP</td><td>● Conform correct CONVERGENCE and deflection system adjustments.
1. Set the ASPECT mode to REGULAR.
2. Set to the POP mode and display the sub picture at the lower right.
3. Supply a crosshatch or other vertically symmetrical signal to both the main and sub screens.
4. Adjust <OTHERS 8> to set the left edge of the sub-picture at the 90% position of the main picture.
5. Display the POP sub-picture at the lower left.
6. Adjust <OTHERS 9> to the set the right edge of the sub-picture at the 90% position of the main picture.
7. Change the POP sub-picture position. Refer to the figure and adjust <PIP 12>, <PIP 13>, <PIP 14> and <PIP 15> so that spaces X1 and X2 (with respect to main picture) and Y1 and Y2 (screen top and bottom edges) are not produced at the respective positions.</td></tr>
<tr><td>**20.CATEGORY SCREEN DISPLAY POSITION**</td><td>**Pattern generator**

</td><td>**Screen**</td><td>**PIP 17 :**
V POSI CAT
PIP 18 :
H POSI CAT</td><td>● Conform correct CONVERGENCE and deflection system adjustments.
1. Receive an ordinary broadcast.
2. Set the Category Preview screen.
3. Select <PIP 17> or <PIP 18> (the Category Preview screen is produced automatically) .
4. Refer to the figure and adjust <PIP 17> and <PIP 18> so that spaces X (with respect to main picture) and Y (screen top and bottom edges) are not produced.</td></tr>
<tr><td>**21.PIP FRAME WIDTH**</td><td>**Pattern generator**

Same thickness left and right</td><td>**Screen**</td><td>**PIP 20 :**
FRAME WDT SIGL
PIP 21 :
FRAME WDT SPLT</td><td>● Conform correct CONVERGENCE and deflection system adjustments.
1. Set to the PIP mode and display the sub-picture.
2. Supply a crosshatch or other signal input to both the main and sub screens which allows clearly distinguishing the sub picture frame (i.e., a low brightness level image) .
3. Adjust <PIP 20> to equalize the frame width at the left and right of the sub-picture.
[NV-55BX6 only]
4. Set to the SPLIT display mode.
5. Adjust <PIP 21> to equalize the frame width at the left and right of the split picture.</td></tr>
</table>

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>22.PIP CONTRAST
[Split screen]

 </td><td>Pattern generator</td><td>Screen</td><td>PIP 30 :
PIP1 CONT SIGL
PIP 31 :
PIP1 CONT SPLT
PIP 36 :
PIP2 CONT SPLT</td><td>● Conform proper main picture adjustments from SUB BRIGHT to SUB COLOR and SUB TINT.
● Conform proper PIP POSITION adjustments.
1. Set to the PIP mode and display the sub-picture.
2. Receive the same ordinary broadcast on both the main and sub screens.
3. Adjust <PIP 30> to set the sub-picture contrast equal to the main picture.
[NV-55BX6 only]
4. Set to the SPLIT display mode.
5. Adjust the right screen (sub-picture) with <PIP 31> and the left screen (main -picture) with <PIP 36> to equalize the contrast of the left and right screens.
6. Release the PIP SERVICE mode or otherwise set to a state where the main picture is not displayed. Comfirm optimum contrast for left and right split screens. If adjustment is deviated, repeat from the above step 4.</td></tr>
<tr><td>23.PIP WHITE BALANCE
Visually adjust the center of each screen


[Split screen]
Adjust <PIP 37> & <PIP 38>
Adjust <PIP 32> & <PIP 33>

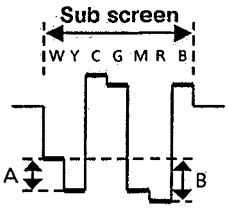
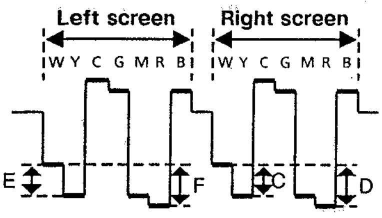
</td><td>Pattern generator</td><td>Screen</td><td>PIP 32 :
PIP1 G DRV
PIP 33 :
PIP1 B DRV
PIP 37 :
PIP2 G DRV
PIP 38 :
PIP2 B DRV</td><td>● Confirm correct PIP CONTRAST adjustment.
1. Set to the PIP mode and display the sub-picture.
2. Supply an all white signal input to both the main and sub screens.
3. Adjust <PIP 32> and <PIP 33> to equalize the white balance (high light) of the sub-picture with the main picture.
[NV-55BX6 only]
4. Set to the SPLIT display mode.
5. Adjust <PIP 37> and <PIP 38> to equalize the white balance (high light) of the left picture with the right picture.</td></tr>
<tr><td>24.PIP SUB TINT & SUB COLOR
◆CRT SOCKET◆


Fig. 1
<table><tr><th>AV STATUS</th><th>A:W-Y</th><th>B:W-R</th></tr><tr><td>All</td><td>+21</td><td>+12</td></tr></table>
[Split screen]


Left screen
Right screen
W Y C G M R B
W Y C G M R B
E
F
C
D

Fig. 2</td><td>Pattern generator</td><td>Screen

TP-R</td><td>PIP 28 :
PIP1 TINT
PIP 29 :
PIP1 COLOR
PIP 34 :
PIP2 TINT
PIP 35 :
PIP2 COLOR</td><td>● Confirm proper PIP WHITE BALANCE adjustment.
1. Set to the PIP mode and display the sub-picture.
2. Supply a color bar signal input to both the main and sub screens.
3. Adjust <PIP 28> and <PIP 29> for optimum picture.
[NV-55BX6 only]
4. Set to the SPLIT display mode.
5. Adjust <PIP 34> and <PIP 35> to obtain the same image on both left and right screens.

■Adjustment using oscilloscope
1. Set to the PIP mode and display the sub-picture.
2. Supply a color bar signal input to both the main and sub screens.
3. Connect oscilloscope to TP-R.
4. Refer to Fig. 1 and adjust <PIP 28> and <PIP 29> to set the A and B components to the values indicated in the table.
[NV-55BX6 only]
5. Set to the SPLIT display mode.
6. Refer to Fig. 2 and adjust <PIP 34> and <PIP 35> to equalize components C and E, and D and F.</td></tr>
</table>

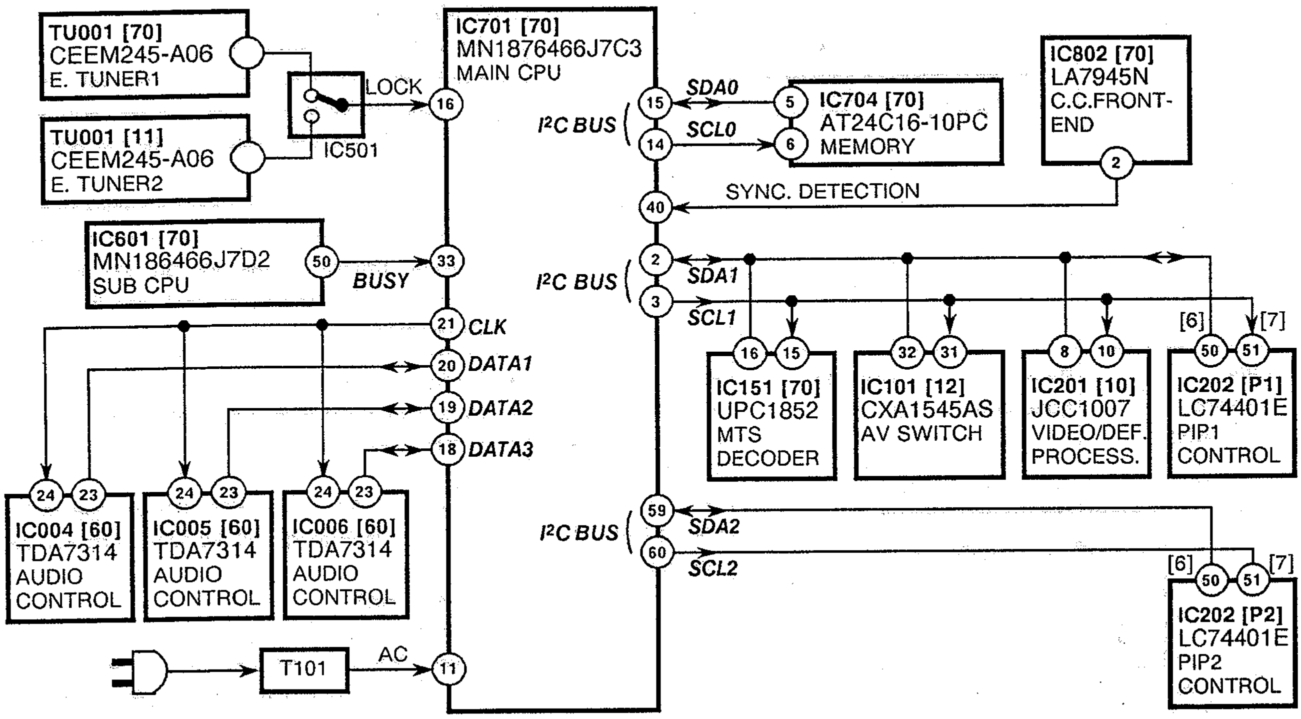
TROUBLESHOOTING

■SELF CHECK FUNCTIONS

1. OUTLINE

This model includes a self check function that checks the circuit operating status and in event of malfunction, displays and stores the data in a memory. The data are stored in MEMORY (IC704).
Fault detection starts with the I^2C bus and is performed according to the input states of the control lines connected to the MAIN CPU.

●System connection diagram [NV-55BX6]


TU001 [70]
CEEM245-A06
E. TUNER1
TU001 [11]
CEEM245-A06
E. TUNER2
LOCK
IC501
IC701 [70]
MN1876466J7C3
MAIN CPU
16
I²C BUS
15
14
SDA0
SCL0
5
6
IC704 [70]
AT24C16-10PC
MEMORY
IC802 [70]
LA7945N
C.C.FRONT-END
2
SYNC. DETECTION
40
IC601 [70]
MN186466J7D2
SUB CPU
50
BUSY
33
I²C BUS
2
3
SDA1
SCL1
21 CLK
20 DATA1
19 DATA2
18 DATA3
16
15
IC151 [70]
UPC1852
MTS
DECODER
32
31
IC101 [12]
CXA1545AS
AV SWITCH
8
10
IC201 [10]
JCC1007
VIDEO/DEF.
PROCESS.
[6]
[7]
50
51
IC202 [P1]
LC74401E
PIP1
CONTROL
24
23
IC004 [60]
TDA7314
AUDIO
CONTROL
24
23
IC005 [60]
TDA7314
AUDIO
CONTROL
24
23
IC006 [60]
TDA7314
AUDIO
CONTROL
I²C BUS
59
60
SDA2
SCL2
[6]
[7]
50
51
IC202 [P2]
LC74401E
PIP2
CONTROL
T101
AC
11

2. USAGE

●Self check display mode entry

1) Set the SERVICE mode (see page 1-14).
2) At the SERVICE MODE MENU, select the "SELF-CHECK".
3) The screen indicates as shown in the table and the self check display mode is entered.

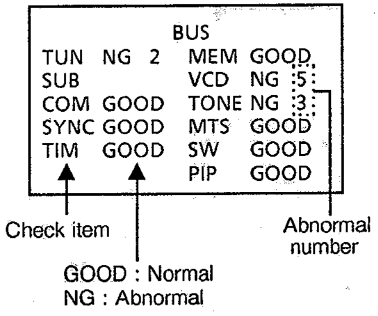
●Self check display mode release

1) To save the fault history
   Press the [EXIT] key of the remote controller or disconnect the power cord from the AC outlet.
2) To delete (reset) the fault history
   Use the [POWER] key of the remote controller (or main power switch of the TV set mainframe.) to switch off the power.

●Fault history

The fault history counts up to a maximum of 9 times for each item. If the number of times exceeds 9, the display remains at 9.
The fault history remains stored in the MEMORY until deleted.
※ The sync. signal (presence or absence) is not counted or stored.

< Self Check display mode >



```
                 BUS
TUN  NG  2    MEM  GOOD
SUB           VCD  NG  :5:
COM  GOOD     TONE NG  :3:
SYNC GOOD     MTS  GOOD
TIM  GOOD     SW   GOOD
              PIP  GOOD
```

Check item
Abnormal number
GOOD : Normal
NG : Abnormal

※ Since SYNC is not counted, the fault times are not displayed.

●Notes regarding self check function

In addition to circuit faults (abnormal operation) the following cases can be interpreted as faults, resulting in NG display and count.

1) Incursion of a pulse type temporarily interrupting transmission between circuits.
2) Power supply (Vcc) rise and fall timing error of ICs corresponding to the I^2C bus at power on /off.

Such events can cause NG display for numerous items and interfere with diagnosis.
When symptoms are likely to recur, erase (reset) the fault history to enable store new diagnosis data.

3. CONTENTS

Self check is performed regarding the items indicated in the table.

Check item	Display name	Contents(check location)	Check signal (line)	Detection method
Tuner	TUN	Normal tuner operation **[TU001 : CEEM132-B01]**	LOCK	Check for lock signal produced within a fixed time period(350ms) during channel selection.
SUB CPU	SUB COM	Normal transmission with MAIN CPU **[IC601 : MN176466J7D2]**	BUSY	Checks if BUSY line is "High" longer than 100ms.
Sync. signal (Presence or absence)	SYNC	Presence or absence of video (sync.) signal input **[IC802 : LA7945N]**	SD	Check for high potential from IC SD output pin after the self check display mode.
Timer	TIM	Power supply frequency fluctuation (change)	AC	AC pulse counted periodically. Except for directly after MAIN CPU reset, power supply frequency change from 50 to 60Hz, or from 60 to 50Hz is checked during operation.

[I^2C BUS]

Check item	Display name	Contents(check location)	Check signal (line)	Detection method
Memory	MEM	Normal memory read / write operation **[IC704 : AT24C16-10PC]**	SDA	At power on, a special pattern is written into a special address. This is read out and compared.
Video, chroma, deflection process	VCD	Normal IC operation **[IC201 : JCC1007]**	SDA	Check that data are sent from IC in response to MAIN CPU request.
Audio control **[NV-55BX6]**	TONE	Normal IC operation **[IC004 / IC005 / IC006 : TDA7314]**	SDA	Check that data are sent from IC in response to MAIN CPU request.
Audio control **[NV-55BH6]**	TONE	Normal IC operation **[IC601 : UPC1853CT]**	SDA	Check that data are sent from IC in response to MAIN CPU request.
MTS demodulation	MTS	Normal IC operation **[IC151 : UPC1852ACT]**	SDA	Check that data are sent from IC in response to MAIN CPU request.
Input switching	SW	Normal IC operation **[IC101 : CXA1545AS]**	SDA	Check that data are sent from IC in response to MAIN CPU request.
PIP1 & PIP2 control	PIP	Normal IC operation **[IC202 : LC74401E]**	SDA	Check that data are sent from IC in response to MAIN CPU request.

NV-55BX6 [US&CA] / NV-55BH6 [US]
STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal : Color bar signal
(2)Setting positions of each knob/button and variable resistor :Original setting position when shipped
(3)Internal resistance of tester : DC 20kΩ/V
(4)Oscilloscope sweeping time : H ⇒20μS/div
: V ⇒5mS/div
: Others ⇒ Sweeping time is specified
(5)Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209→R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

- Resistance value
  No unit : [Ω]
  K : [kΩ]
  M : [MΩ]
- Rated allowable power
  No indication : 1/6[W]
  Others : As specified
- Type
  No indication : Carbon resistor
  OMR : Oxide metal film resistor
  MFR : Metal film resistor
  MPR : Metal plate resistor
  UNFR : Uninflammable resistor
  FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

- Capacitance value
  1or higher : [pF]
  less than 1 : [μF]
- Withstand voltage
  No indication : DC50[V]
  Others : DC withstand voltage [V]
  AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors
47/50[Example]: Capacitance value[μF]/withstand voltage [V]

- Type
  No indication : Ceramic capacitor
  MY : Mylar capacitor
  MM : Metalized mylar capacitor
  PP : Polypropylene capacitor
  MPP : Metalized polypropylene capacitor
  MF : Metalized film capacitor
  TF : Thin film capacitor
  BP : Bipolar electrolytic capacitor
  TAN : Tantalum capacitor

(3) Coils

No unit : [μH]
Others : As specified

(4) Power Supply

▬▬▬▬ : B1(130V)
▬ ▬ ▬ ▬ : B2(12V)
■□■□ : 9V
□□□□ : 5V

*Respective voltage values are indicated.

(5) Test Point

⦿ : Test point
○ : Only test point display

(6) Connecting method

□ : Connector
○ : Wrapping or soldering
→≻— →⊁— : Receptacle

(7) Ground symbol

⊥ : LIVE side ground
⊥̸ : ISOLATED(NEUTRAL) side ground
⏚ : EARTH ground
▽ : DIGITAL ground

5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⊥̸) side GND. Therefore, care must be taken for the following points.

(1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◇ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

July 1995 No.50988

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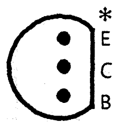
PWB ASS'Y or PARTS NAME	NV-55BX6	NV-55BH6	CIRCUIT DIAGRAMS PAGE No.	PWB PATTERNS PAGE No.
MI-COM PWB ASS'Y	PA-7001A-H1	PA-7002A-H1	2-13 ~ 16	2-47, 48
TUNER PWB ASS'Y	PA-1101A-H1	-----------	2-17	2-49
FRONT CONTROL PWB ASS'Y	PA-4001A-H1	PA-4001A-H1	2-18	2-50
LED PWB ASS'Y	PA-4003A-H1	PA-4003A-H1	2-18	2-50
REMOCON PWB ASS'Y	PA-4004A-H1	PA-4004A-H1	2-18	2-50
AV TERMINAL PWB ASS'Y	PA-1201A-H1	PA-1202A-H1	2-19, 20	2-51
3D YC SEP. MODULE	PA-0Y001A-H1	-----------	2-21, 22	-----------
2D YC SEP. PWB ASS'Y	-----------	PA-0Y002A-H1	2-23, 24	2-52
VIDEO / CHROMA PWB ASS'Y	PA-1001A-H1	PA-1002A-H1	2-25 ~ 28	2-53
PIP1 MODULE	PA-0P002A-H2	PA-0P001A-H2	2-29. 30	-----------
PIP2 MODULE	PA-0P003A-H2	-----------	2-29. 30	-----------
ASPECT PWB ASS'Y	PA-0A001A-H1	PA-0A001A-H1	2-31, 32	2-54
CRT SOCKET PWB ASS'Y	PA-3001A-H1	PA-3001A-H1	2-33	2-55
DYNAMIC FOCUS PWB ASS'Y	PA-0D001A-H1	PA-0D001A-H1	2-34	2-56
DEF. PWB ASS'Y	PA-2001A-H1	PA-2001A-H1	2-35, 36	2-57, 58
CONVERGENCE PWB ASS'Y	PA-8001A-H1	PA-8001A-H1	2-37, 38	2-59, 60
POWER PWB ASS'Y	PA-9001A-H1	PA-9002A-H1	2-39, 40	2-61, 62
AUDIO PWB ASS'Y	PA-6001A-H1	-----------	2-41, 42	2-63, 64
AUDIO PWB ASS'Y	-----------	PA-6002A-H1	2-45, 46	2-67
SURROUND PWB ASS'Y	PA-6201A-H1	-----------	2-43, 44	2-65, 66
REMOTE CONTROL UNIT	RM-C727-1A	RM-C726-1A	2-68	-----------

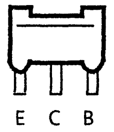
SEMICONDUCTOR SHAPES

■TRANSISTORS



2SC2229(Y)-T
2SA1321-T
2SC3334-T

2SC4502



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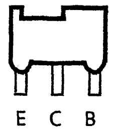
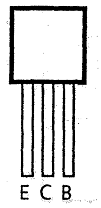
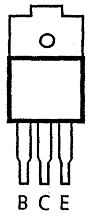


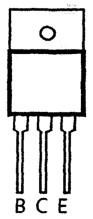


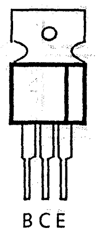
2SC3311A(QR)-T
2SA1309A(QR)-T
2SC1740S(QR)-T
2SA933S(QR)-T
2SC1740S(QR)-T



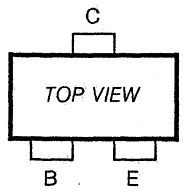
2SD1276A(QP)
2SB950A(QP)

2SC4544-C1



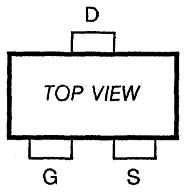


2SC4256


C
TOP VIEW
B
E

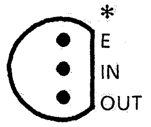
2SA1037K(QR)-X
2SC2412K(QR)-X
DTC124EKA-X
DTC144WKA-X

2SK209(YG)-W

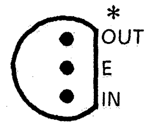

D
TOP VIEW
G
S

■ICs

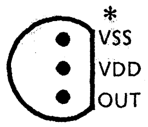
TA79L012P-Y

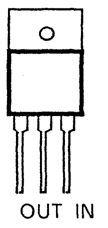


AN78L05-Y
AN78L09-Y

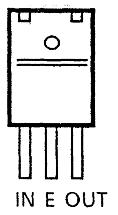


MN1381-Q-Y



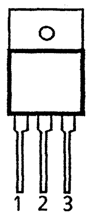


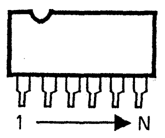
AN7812F
AN7809F
AN7805F



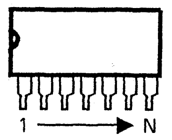
NJM7805FA
NJM7812FA
NJM7905FA
NJM7912FA

SE130N



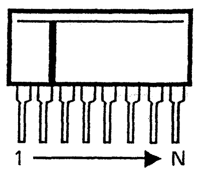


XRA15218N
BA15218N

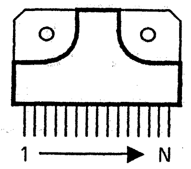


LA7016
M51494L

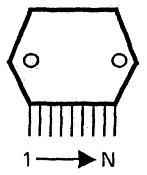
M5230L



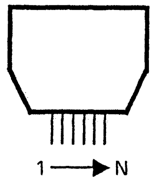
MC13516T2

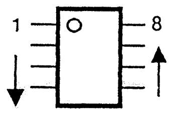


STK711-550

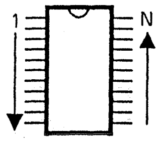


STK4274

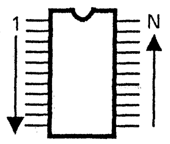




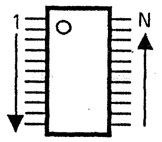
NSM5256RS
BA7655AF-X
TC4W66F-X
AT24C16-10PC



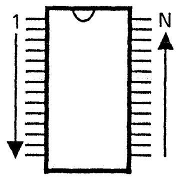
TDA7314V
SAA4981
MC14052BCP
JCC1005



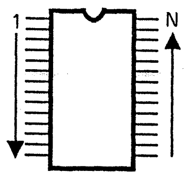
TC4538BP
AN5867K-A
AN5860



LA7577N
LA7945N
MC14053BF-W

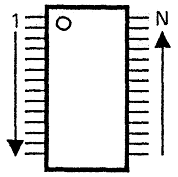


CXA1545AS
CX20000
LC7458B-04



JCC1007
MN1876466J7C3
MN1876466J7D2

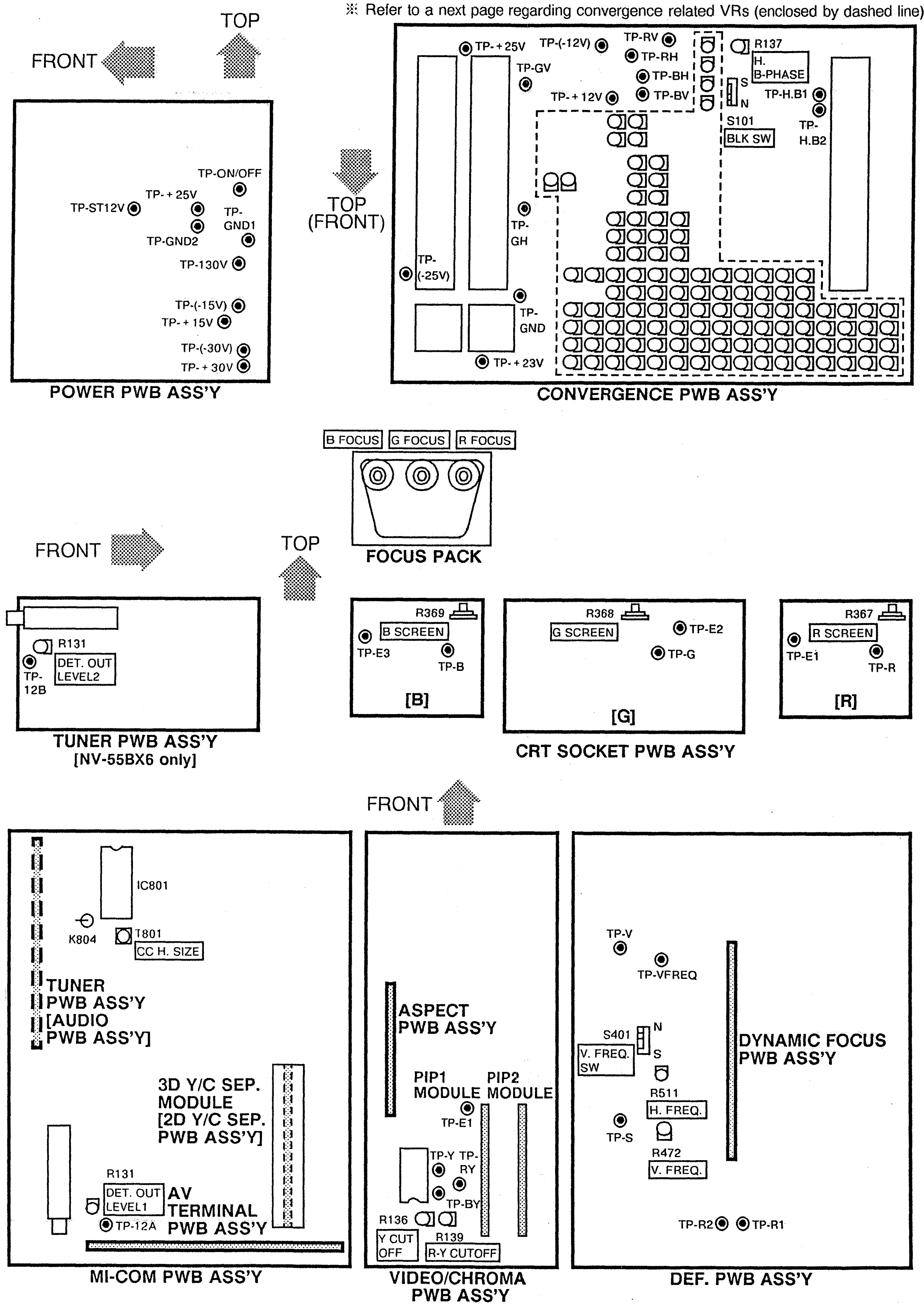
PA0036



MAIN PARTS LOCATION AND ALIGNMENT LOCATION

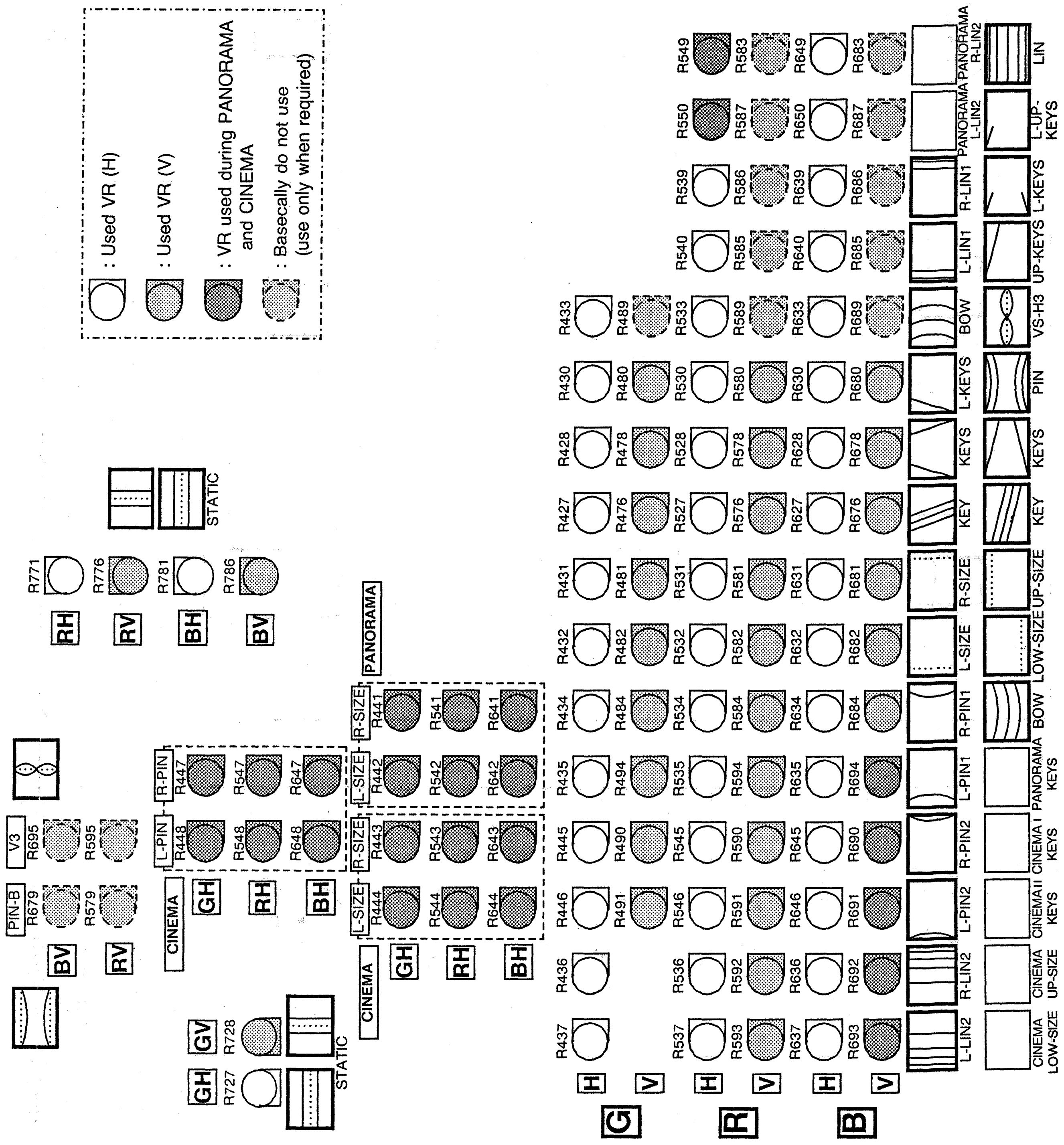
NV-55BX6 NV-55BH6	NV-55BX6 NV-55BH6

※ Refer to a next page regarding convergence related VRs (enclosed by dashed line) .



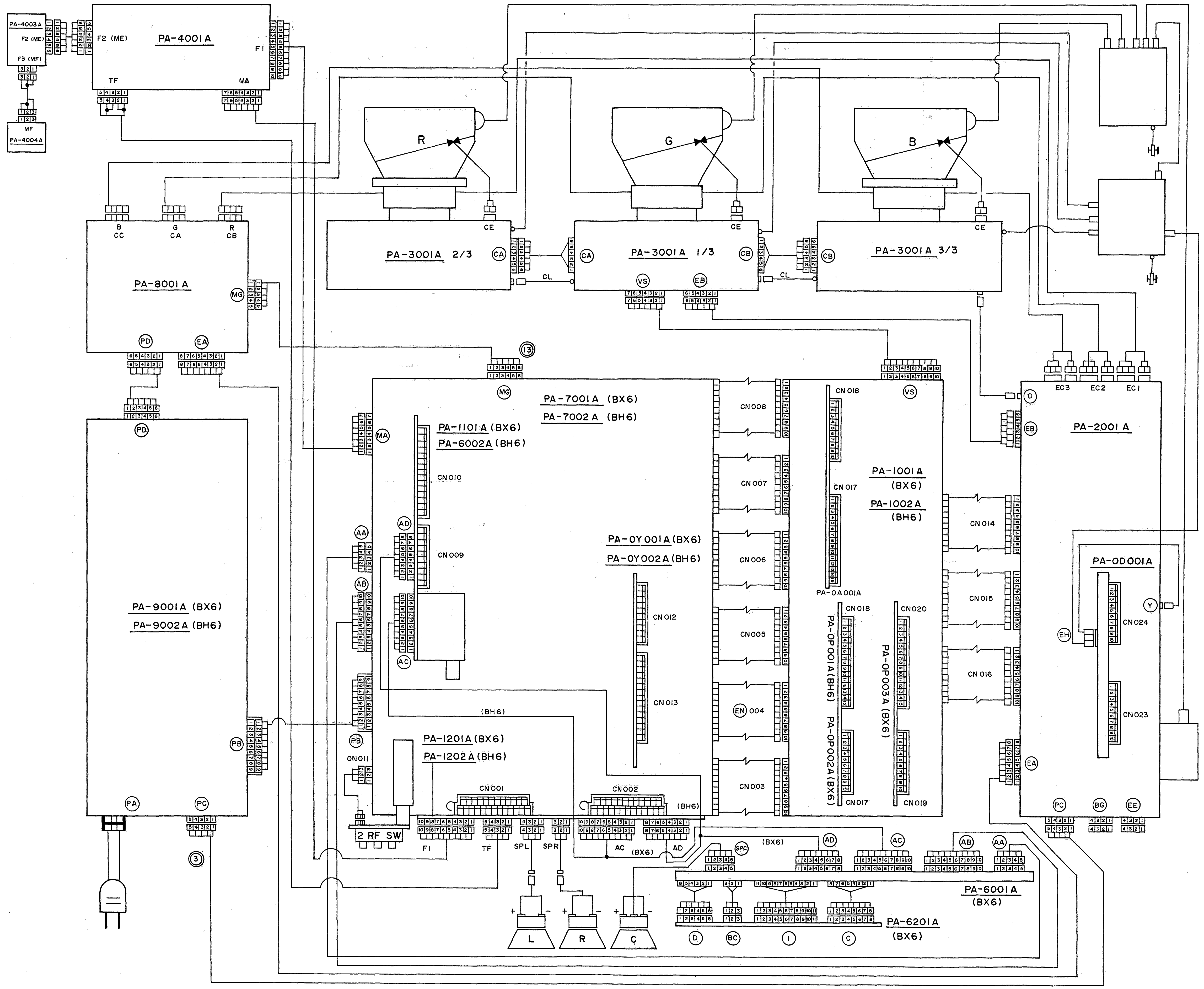
TOP
FRONT
TP-ON/OFF
TP-+25V
TP-ST12V
TP-GND1
TP-GND2
TP-130V
TP-(-15V)
TP-+15V
TP-(-30V)
TP-+30V
POWER PWB ASS'Y
TOP (FRONT)
TP-+25V
TP-(-12V)
TP-RV
TP-RH
TP-BH
TP-BV
TP-GV
TP-+12V
R137
H. B-PHASE
S
N
TP-H.B1
S101
BLK SW
TP-H.B2
TP-GH
TP-(-25V)
TP-GND
TP-+23V
CONVERGENCE PWB ASS'Y
B FOCUS
G FOCUS
R FOCUS
FOCUS PACK
FRONT
TOP
R131
DET. OUT LEVEL2
TP-12B
TUNER PWB ASS'Y
[NV-55BX6 only]
R369
B SCREEN
TP-E3
TP-B
[B]
R368
G SCREEN
TP-E2
TP-G
[G]
R367
R SCREEN
TP-E1
TP-R
[R]
CRT SOCKET PWB ASS'Y
FRONT
IC801
K804
T801
CC H. SIZE
TUNER PWB ASS'Y [AUDIO PWB ASS'Y]
3D Y/C SEP. MODULE [2D Y/C SEP. PWB ASS'Y]
R131
DET. OUT LEVEL1
TP-12A
AV TERMINAL PWB ASS'Y
MI-COM PWB ASS'Y
ASPECT PWB ASS'Y
PIP1 MODULE
PIP2 MODULE
TP-E1
TP-Y
TP-RY
TP-BY
R136
Y CUT OFF
R139
R-Y CUTOFF
VIDEO/CHROMA PWB ASS'Y
TP-V
TP-VFREQ
S401
N
S
V. FREQ. SW
R511
H. FREQ.
TP-S
R472
V. FREQ.
DYNAMIC FOCUS PWB ASS'Y
TP-R2
TP-R1
DEF. PWB ASS'Y

■ CONVERGENCE PWB ASS'Y VRs LOCATION

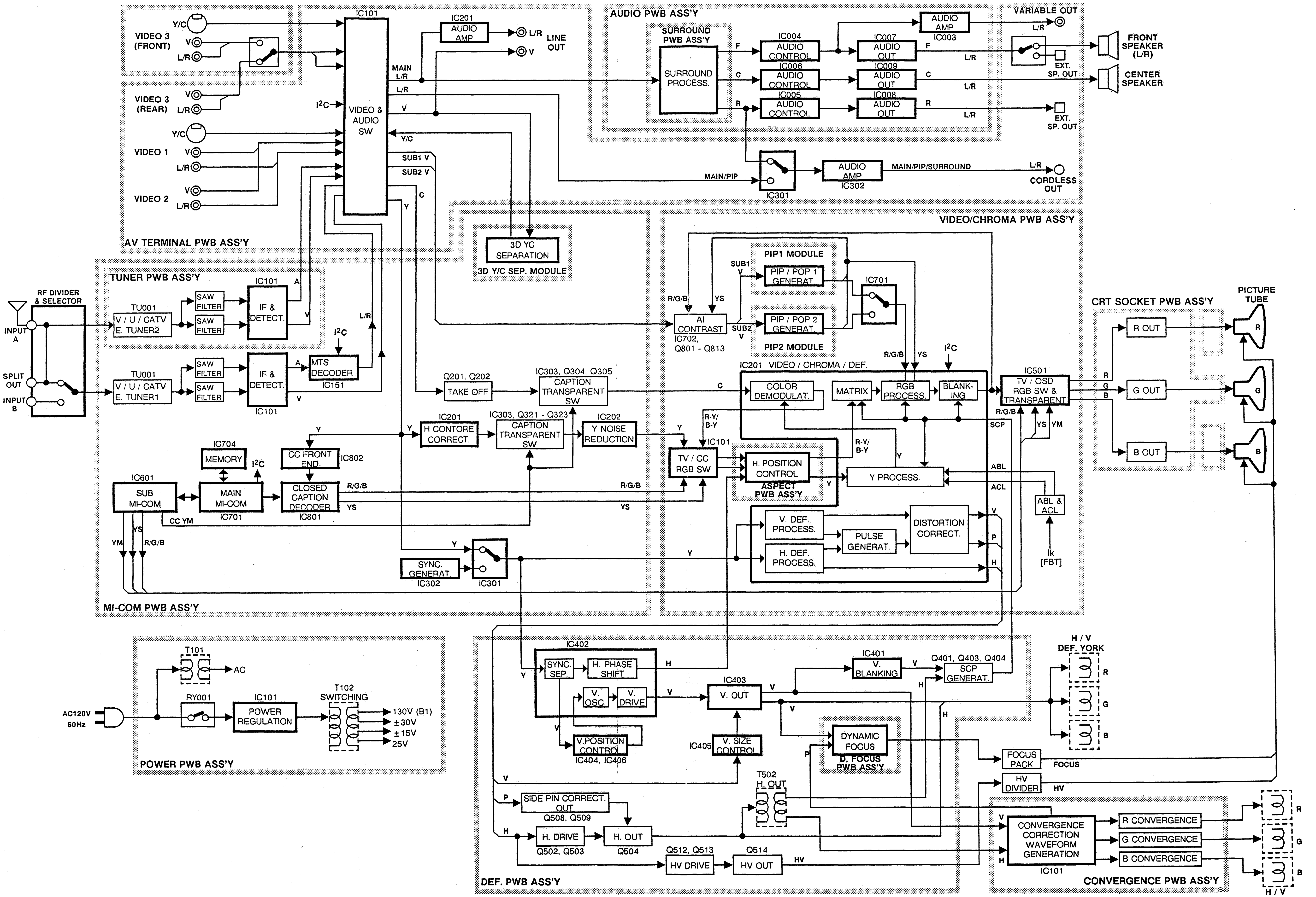


○ : Used VR (H)
◐ : Used VR (V)
● : VR used during PANORAMA and CINEMA
◌ : Basecally do not use (use only when required)
R549
R583
R649
R683
PANORAMA R-LIN2
LIN
R550
R587
R650
R687
PANORAMA L-LIN2
L-UP-KEYS
R539
R586
R639
R686
R-LIN1
L-KEYS
R540
R585
R640
R685
L-LIN1
UP-KEYS
R433
R489
R533
R589
R633
R689
BOW
VS-H3
R430
R480
R530
R580
R630
R680
L-KEYS
PIN
R428
R478
R528
R578
R628
R678
KEYS
KEYS
R427
R476
R527
R576
R627
R676
KEY
KEY
R431
R481
R531
R581
R631
R681
R-SIZE
UP-SIZE
R432
R482
R532
R582
R632
R682
L-SIZE
LOW-SIZE
R434
R484
R534
R584
R634
R684
R-PIN1
BOW
R435
R494
R535
R594
R635
R694
L-PIN1
PANORAMA KEYS
R445
R490
R545
R590
R645
R690
R-PIN2
CINEMA I KEYS
R446
R491
R546
R591
R646
R691
L-PIN2
CINEMA II KEYS
R436
R536
R592
R636
R692
R-LIN2
CINEMA UP-SIZE
R437
R537
R593
R637
R693
L-LIN2
CINEMA LOW-SIZE
H
V
H
V
H
V
G
R
B
STATIC
R771
R776
R781
R786
RH
RV
BH
BV
PANORAMA
R-SIZE
R441
R541
R641
R-PIN
R447
R547
R647
L-SIZE
R442
R542
R642
L-PIN
R448
R548
R648
R-SIZE
R443
R543
R643
L-SIZE
R444
R544
R644
V3
R695
R595
PIN-B
R679
R579
BV
RV
CINEMA
GH
RH
BH
CINEMA
GH
RH
BH
GV
R728
GH
R727
STATIC

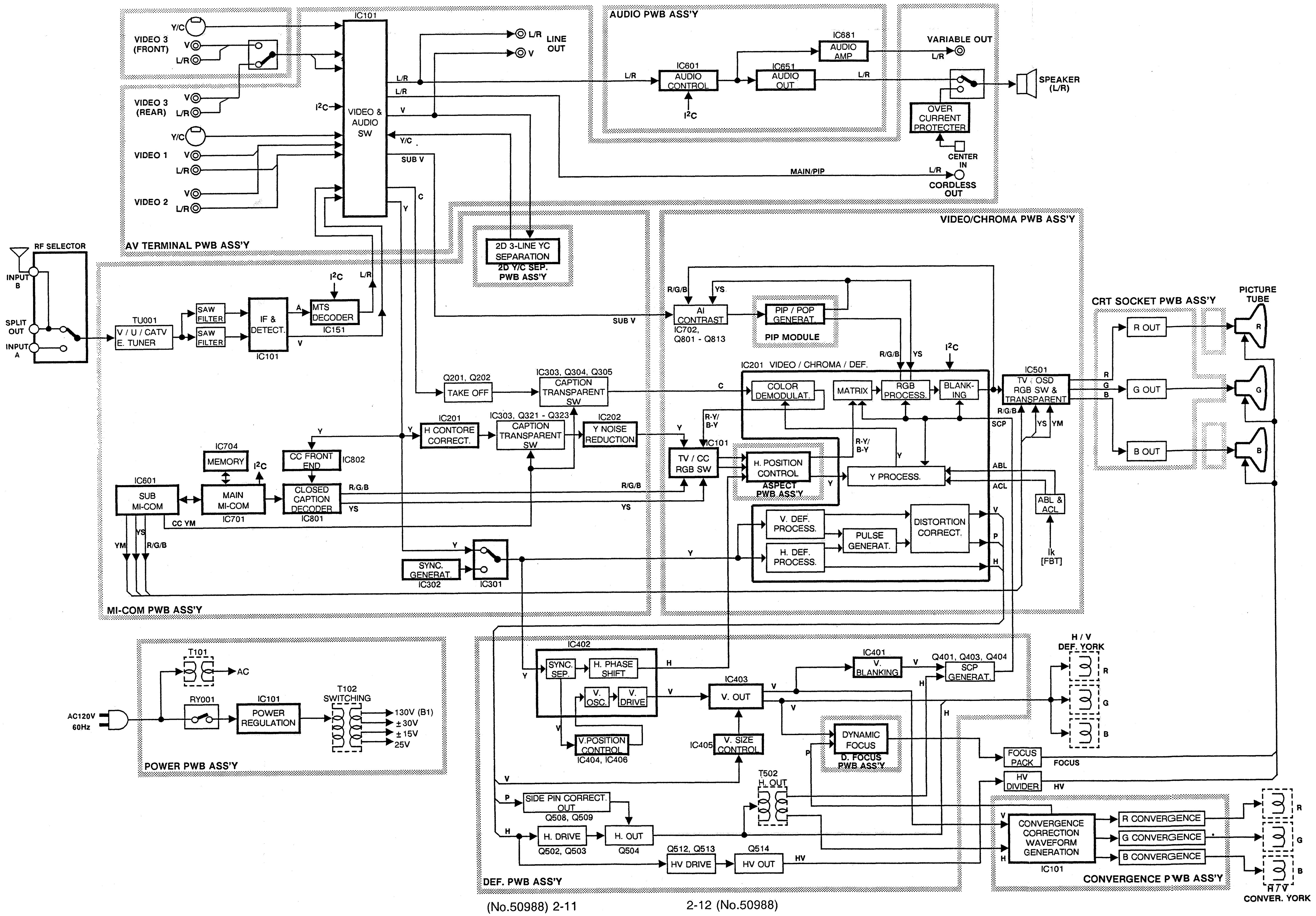
WIRING DIAGRAM


PA-4003A
F2 (ME)
F3 (MF)
MF
PA-4004A
PA-4001A
F2 (ME)
F1
TF
MA
R
G
B
CE
PA-3001A 2/3
PA-3001A 1/3
PA-3001A 3/3
CA
CB
CL
VS
EB
PA-8001A
B CC
G CA
R CB
MG
PD
EA
13
PA-7001A (BX6)
PA-7002A (BH6)
PA-1101A (BX6)
PA-6002A (BH6)
CN010
CN009
AD
AA
AB
AC
MA
PA-0Y001A (BX6)
PA-0Y002A (BH6)
CN012
CN013
CN008
CN007
CN006
CN005
EN 004
CN003
CN018
CN017
PA-0A001A
CN018
CN020
PA-0P001A (BH6)
PA-0P002A (BX6)
PA-0P003A (BX6)
CN017
CN019
PA-1001A (BX6)
PA-1002A (BH6)
CN014
CN015
CN016
PA-2001A
EC3
EC2
EC1
O
EB
PA-0D001A
CN024
CN023
Y
EH
EA
PC
BG
EE
PA-9001A (BX6)
PA-9002A (BH6)
PD
PB
PA
PC
3
(BH6)
PA-1201A (BX6)
PA-1202A (BH6)
PB
CN011
2 RF SW
CN001
CN002
(BH6)
F1
TF
SPL
SPR
AC
(BX6)
AD
SPC
(BX6)
AD
AC
AB
AA
PA-6001A (BX6)
PA-6201A (BX6)
D
BC
I
C
L
R
C

BLOCK DIAGRAMS [NV-55BX6]


AV TERMINAL PWB ASS'Y
VIDEO 3 (FRONT)
Y/C
V
L/R
VIDEO 3 (REAR)
VIDEO 1
VIDEO 2
IC101
VIDEO & AUDIO SW
I²C
MAIN L/R
L/R
V
Y/C
SUB1 V
SUB2 V
C
Y
IC201
AUDIO AMP
L/R
V
LINE OUT
AUDIO PWB ASS'Y
SURROUND PWB ASS'Y
SURROUND PROCESS.
F
C
R
IC004
AUDIO CONTROL
IC006
AUDIO CONTROL
IC005
AUDIO CONTROL
IC007
AUDIO OUT
IC009
AUDIO OUT
IC008
AUDIO OUT
AUDIO AMP
IC003
VARIABLE OUT
FRONT SPEAKER (L/R)
CENTER SPEAKER
EXT. SP. OUT
MAIN/PIP
IC301
AUDIO AMP
IC302
MAIN/PIP/SURROUND
CORDLESS OUT
3D YC SEPARATION
3D Y/C SEP. MODULE
VIDEO/CHROMA PWB ASS'Y
TUNER PWB ASS'Y
RF DIVIDER & SELECTOR
INPUT A
SPLIT OUT
INPUT B
TU001
V / U / CATV E. TUNER2
V / U / CATV E. TUNER1
SAW FILTER
IF & DETECT.
A
MTS DECODER
IC151
Q201, Q202
TAKE OFF
IC303, Q304, Q305
CAPTION TRANSPARENT SW
IC201
H CONTORE CORRECT.
IC303, Q321 - Q323
CAPTION TRANSPARENT SW
IC202
Y NOISE REDUCTION
IC704
MEMORY
IC601
SUB MI-COM
MAIN MI-COM
IC701
CC FRONT END
IC802
CLOSED CAPTION DECODER
IC801
R/G/B
YS
CC YM
YM
SYNC. GENERAT.
IC302
IC301
MI-COM PWB ASS'Y
PIP1 MODULE
PIP / POP 1 GENERAT.
PIP / POP 2 GENERAT.
PIP2 MODULE
SUB1 V
SUB2 V
AI CONTRAST
IC702, Q801 - Q813
IC701
IC201 VIDEO / CHROMA / DEF.
COLOR DEMODULAT.
MATRIX
RGB PROCESS.
BLANK-ING
IC101
TV / CC RGB SW
H. POSITION CONTROL
ASPECT PWB ASS'Y
R-Y/ B-Y
Y PROCESS.
V. DEF. PROCESS.
PULSE GENERAT.
H. DEF. PROCESS.
DISTORTION CORRECT.
IC501
TV / OSD RGB SW & TRANSPARENT
SCP
ABL
ACL
ABL & ACL
Ik [FBT]
CRT SOCKET PWB ASS'Y
R OUT
G OUT
B OUT
PICTURE TUBE
POWER PWB ASS'Y
T101
AC
RY001
IC101
POWER REGULATION
T102 SWITCHING
130V (B1)
±30V
±15V
25V
AC120V 60Hz
IC402
SYNC. SEP.
H. PHASE SHIFT
V. OSC.
V. DRIVE
V.POSITION CONTROL
IC404, IC406
IC403
V. OUT
IC405
V. SIZE CONTROL
IC401
V. BLANKING
Q401, Q403, Q404
SCP GENERAT.
DYNAMIC FOCUS
D. FOCUS PWB ASS'Y
FOCUS PACK
FOCUS
HV DIVIDER
HV
H / V DEF. YORK
SIDE PIN CORRECT. OUT
Q508, Q509
H. DRIVE
Q502, Q503
H. OUT
Q504
T502 H. OUT
Q512, Q513
HV DRIVE
Q514
HV OUT
DEF. PWB ASS'Y
CONVERGENCE CORRECTION WAVEFORM GENERATION
IC101
R CONVERGENCE
G CONVERGENCE
B CONVERGENCE
CONVERGENCE PWB ASS'Y
H / V CONVER. YORK

BLOCK DIAGRAMS [NV-55BH6]

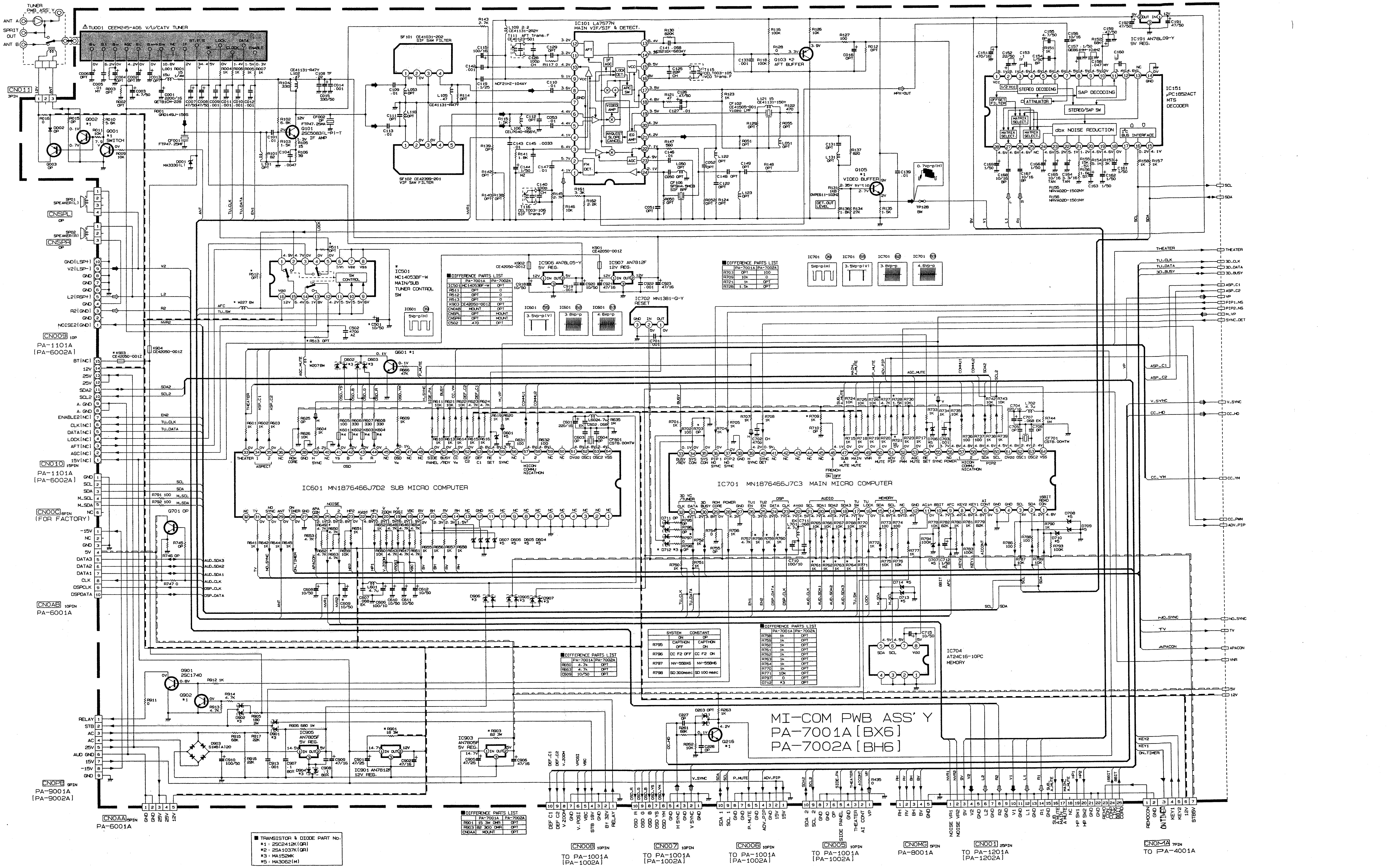


VIDEO 3 (FRONT)
Y/C
V
L/R
VIDEO 3 (REAR)
VIDEO 1
VIDEO 2
AV TERMINAL PWB ASS'Y
IC101
VIDEO & AUDIO SW
I²C
L/R
V
Y/C
SUB V
C
Y
LINE OUT
AUDIO PWB ASS'Y
IC601 AUDIO CONTROL
IC651 AUDIO OUT
IC681 AUDIO AMP
VARIABLE OUT
SPEAKER (L/R)
OVER CURRENT PROTECTER
CENTER IN
MAIN/PIP
CORDLESS OUT
2D 3-LINE YC SEPARATION
2D Y/C SEP. PWB ASS'Y
RF SELECTOR
INPUT B
SPLIT OUT
INPUT A
TU001 V / U / CATV E. TUNER
SAW FILTER
IF & DETECT.
MTS DECODER
IC151
A
VIDEO/CHROMA PWB ASS'Y
R/G/B
YS
AI CONTRAST
IC702, Q801 - Q813
PIP / POP GENERAT.
PIP MODULE
IC201 VIDEO / CHROMA / DEF.
COLOR DEMODULAT.
MATRIX
RGB PROCESS.
BLANK-ING
R-Y/ B-Y
IC501 TV / OSD RGB SW & TRANSPARENT
SCP
YM
ABL
ACL
ABL & ACL
Ik [FBT]
CRT SOCKET PWB ASS'Y
PICTURE TUBE
R OUT
G OUT
B OUT
Q201, Q202 TAKE OFF
IC303, Q304, Q305 CAPTION TRANSPARENT SW
IC201 H CONTORE CORRECT.
IC303, Q321 - Q323 CAPTION TRANSPARENT SW
IC202 Y NOISE REDUCTION
IC101 TV / CC RGB SW
H. POSITION CONTROL
ASPECT PWB ASS'Y
Y PROCESS.
V. DEF. PROCESS.
H. DEF. PROCESS.
PULSE GENERAT.
DISTORTION CORRECT.
IC704 MEMORY
CC FRONT END
IC802
IC601 SUB MI-COM
MAIN MI-COM
IC701
CLOSED CAPTION DECODER
IC801
CC YM
SYNC. GENERAT.
IC302
IC301
MI-COM PWB ASS'Y
POWER PWB ASS'Y
T101
AC
AC120V 60Hz
RY001
IC101 POWER REGULATION
T102 SWITCHING
130V (B1)
±30V
±15V
25V
IC402
SYNC. SEP.
H. PHASE SHIFT
V. OSC.
V. DRIVE
V.POSITION CONTROL
IC404, IC406
IC403 V. OUT
IC405 V. SIZE CONTROL
IC401 V. BLANKING
Q401, Q403, Q404 SCP GENERAT.
DYNAMIC FOCUS
D. FOCUS PWB ASS'Y
FOCUS PACK
FOCUS
HV DIVIDER
HV
H / V DEF. YORK
SIDE PIN CORRECT. OUT
Q508, Q509
H. DRIVE
Q502, Q503
H. OUT
Q504
T502 H. OUT
Q512, Q513 HV DRIVE
Q514 HV OUT
DEF. PWB ASS'Y
CONVERGENCE CORRECTION WAVEFORM GENERATION
IC101
R CONVERGENCE
G CONVERGENCE
B CONVERGENCE
CONVERGENCE PWB ASS'Y
H / V CONVER. YORK
P

CIRCUIT DIAGRAMS AND PWB PATTERNS

MI-COM PWB CIRCUIT DIAGRAMS (PA-7001A [BX6], PA-7002A [BH6])

Refer to the following PWB pattern. : MI-COM PWB PATTERN page 2-47


TUNER PWB ASS'Y
ANT A
SPRIT OUT
ANT B
TU001 CEEM245-A06 V/U/CATV TUNER
CN011 3PIN
IC101 LA7577N MAIN VIF/SIF & DETECT.
SF101 CE41031-202 SIF SAW FILTER
SF102 CE42399-201 VIF SAW FILTER
Q101 2SC5083(L-P)-T IF AMP
Q103 *2 AFT BUFFER
Q105 *1 VIDEO BUFFER
IC151 μPC1852ACT MTS DECODER
STEREO DECODING
SAP DECODING
ATTENUATOR
STEREO/SAP SW
dbx NOISE REDUCTION
I²C BUS INTERFACE
IC191 AN78L09-Y 9V REG.
SP01 SPEAKER(L)
CNSPL
SP02 SPEAKER(R)
CNSPR
CN009 10P
PA-1101A
[PA-6002A]
IC501 MC14053BF-W MAIN/SUB TUNER CONTROL SW
IC906 AN78L05-Y 5V REG.
IC907 AN7812F 12V REG.
IC702 MN1381-Q-Y RESET
CN010 15PIN
PA-1101A
[PA-6002A]
CN00C 6PIN (FOR FACTORY)
CN0AB 10PIN
PA-6001A
IC601 MN1876466J7D2 SUB MICRO COMPUTER
IC701 MN1876466J7C3 MAIN MICRO COMPUTER
IC704 AT24C16-10PC MEMORY
Q901 2SC1740
Q902 *1
IC905 AN7805F 5V REG.
IC901 AN7812F 12V REG.
IC903 AN7805F 5V REG.
CN0PB 9PIN
PA-9001A
[PA-9002A]
CN0AA 5PIN
PA-6001A
MI-COM PWB ASS'Y
PA-7001A [BX6]
PA-7002A [BH6]
CN008 10PIN
TO PA-1001A
[PA-1002A]
CN007 10PIN
TO PA-1001A
[PA-1002A]
CN006 10PIN
TO PA-1001A
[PA-1002A]
CN005 10PIN
TO PA-1001A
[PA-1002A]
CN0MG 5PIN
PA-8001A
CN001 25PIN
TO PA-1201A
[PA-1202A]
CN0MA 7PIN
TO PA-4001A

■DIFFERENCE PARTS LIST

	PA-7001A	PA-7002A
IC501	MC14053BF-W	OPT
R511	OPT	0
R512	OPT	0
R513	OPT	0
K903	CE42050-001Z	OPT
CN0AB	MOUNT	OPT
CNSPL	OPT	MOUNT
CNSPR	OPT	MOUNT
C502	470	OPT

■DIFFERENCE PARTS LIST

	PA-7001A	PA-7002A
R703	OPT	100
R709	10k	0
R721	1k	OPT
R726	1.5k	OPT

■DIFFERENCE PARTS LIST

	PA-7001A	PA-7002A
R650	4.7k	OPT
R663	4.7k	OPT
C609	10/50	OPT

SYSTEM	CONSTANT	
	ON	OP
R795	CAPTHON OFF	CAPTHON ON
R796	CC F2 OFF	CC F2 ON
R797	NV-55BX6	NV-55BH6
R798	SD 300msec	SD 100 msec

■DIFFERENCE PARTS LIST

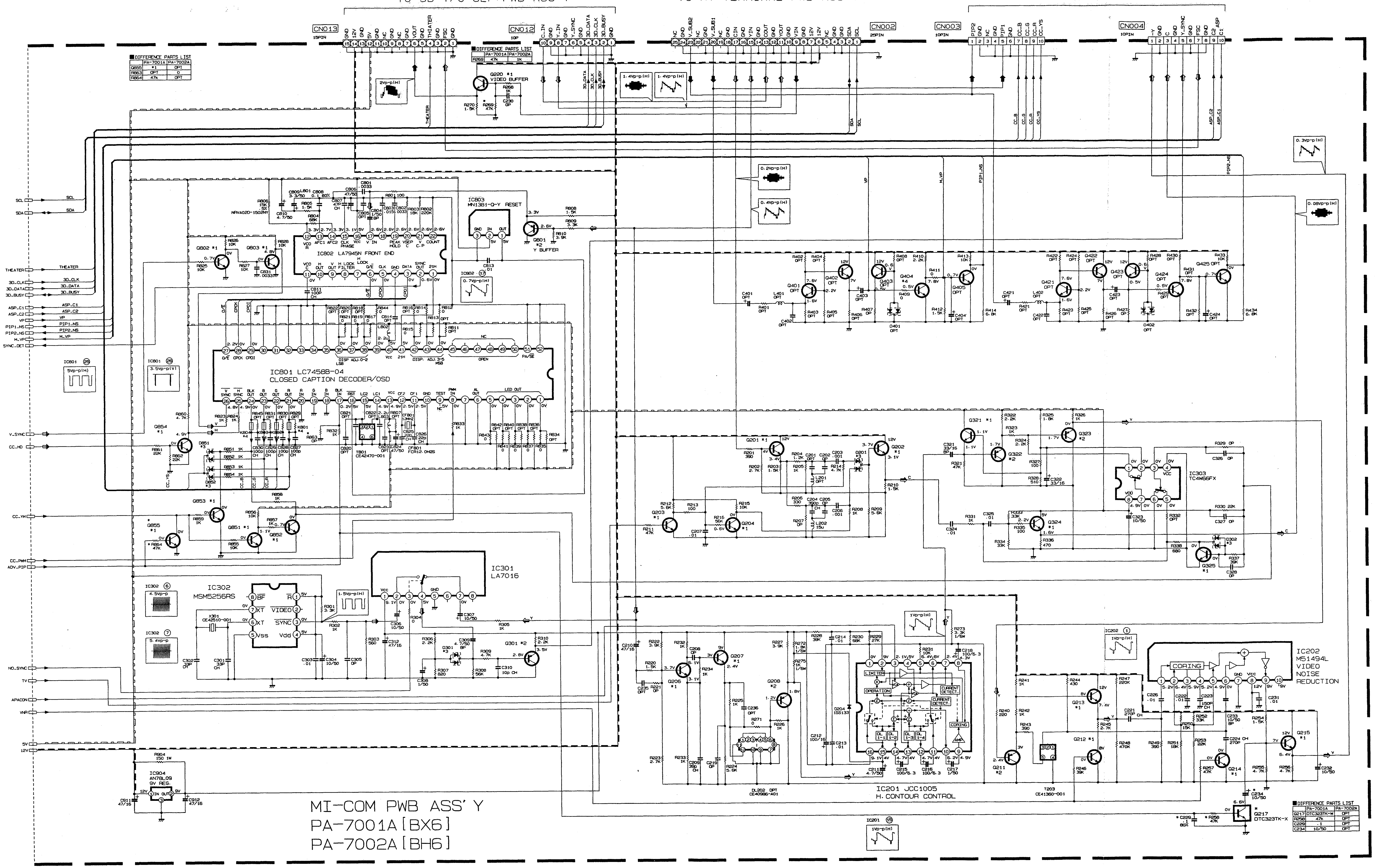
	PA-7001A	PA-7002A
R758	1k	OPT
R759	1k	OPT
R760	1k	OPT
R761	1k	OPT
R762	1k	OPT
R763	1k	OPT
R764	1k	OPT
R770	1k	OPT
R771	10k	OPT
R797	0	OPT
D712	*3	OPT

■DIFFERENCE PARTS LIST

	PA-7001A	PA-7002A
R901	15 3W OMR	OPT
R903	82 300 OMR	OPT
CN0AA	MOUNT	OPT

■ TRANSISTOR & DIODE PART No.
*1 : 2SC2412K(QR)
*2 : 2SA1037K(QR)
*3 : MA152WK
*5 : MA3062(M)

[2D Y/C SEP. PWB ASS'Y]


TO 3D Y/C SEP. PWB ASS'Y
TO AV TERMINAL PWB ASS'Y
TO VIDEO PWB ASS'Y
CN013 15PIN
CN012 10P
CN002 25PIN
CN003 10PIN
CN004 10PIN
Q220 *1 VIDEO BUFFER
IC803 MN1381-Q-Y RESET
Q801 *2 Y BUFFER
IC802 LA7945N FRONT END
IC801 LC74588-04 CLOSED CAPTION DECODER/OSD
IC302 MSM5256RS
IC301 LA7016
IC303 TC4W66FX
IC201 JCC1005 H. CONTOUR CONTROL
IC202 M51494L VIDEO NOISE REDUCTION
CORING
LIMITER
OPERATION
CURRENT DETECT.
IC904 AN78L09 9V REG.
SCL
SDA
THEATER
3D_CLK
3D_DATA
3D_BUSY
ASP_C1
ASP_C2
VP
P1P1_NS
P1P2_NS
M_VP
SYNC_DET
V_SYNC
CC_HD
CC_YM
CC_PWM
ADV_PIP
NO_SYNC
TV
APACON
VNR
5V
12V
MI-COM PWB ASS'Y
PA-7001A[BX6]
PA-7002A[BH6]

■DIFFERENCE PARTS LIST

	PA-7001A	PA-7002A
Q855	*1	OPT
R863	OPT	0
R864	47k	OPT

■DIFFERENCE PARTS LIST

	PA-7001A	PA-7002A
R269	47k	1k

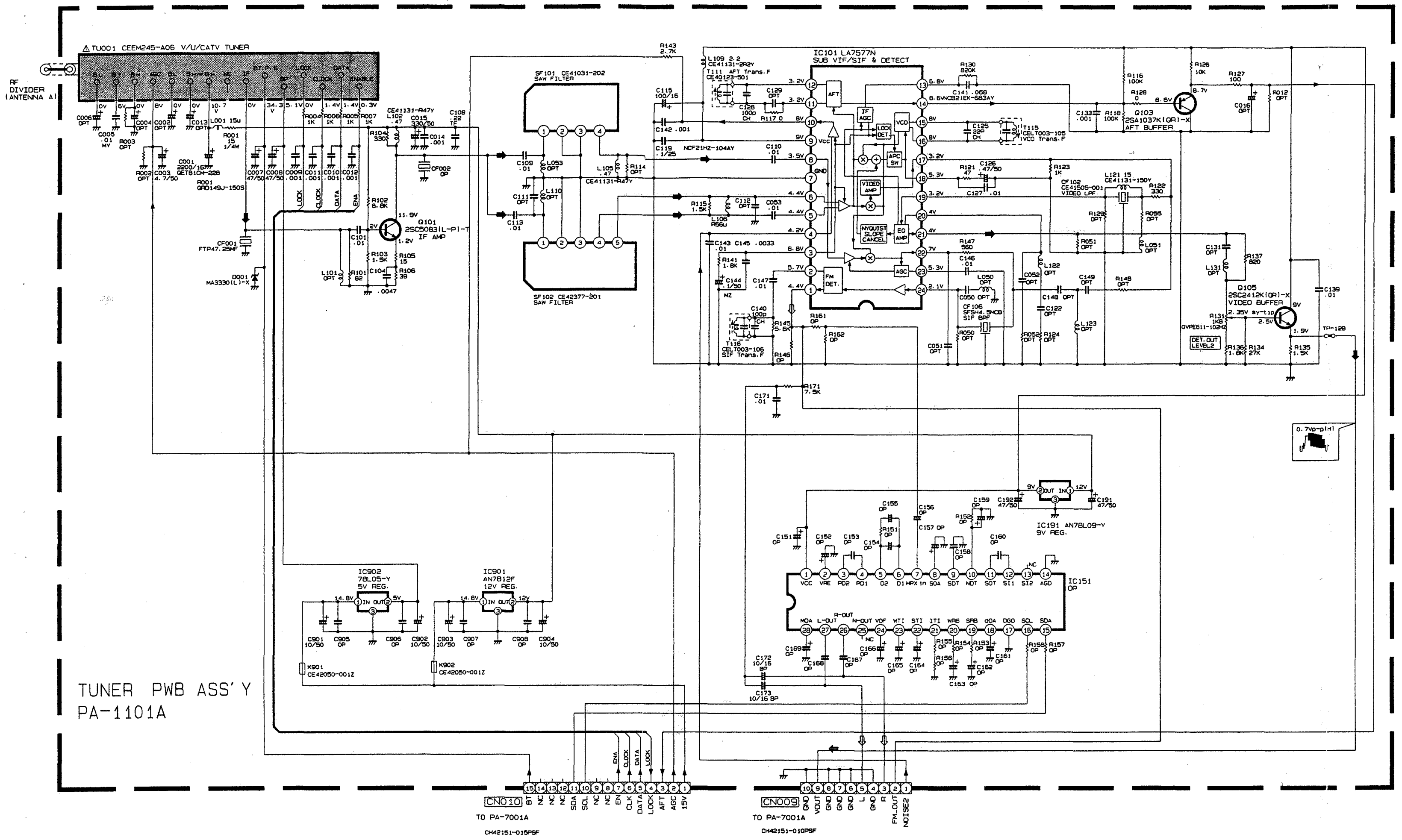
■DIFFERENCE PARTS LIST

	PA-7001A	PA-7002A
Q217	DTC323TK-W	OPT
R258	47k	OPT
C229	.1	OPT
C234	10/50	OPT

■TRANSISTOR & DIODE PART No.
*1 : 2SC2412K(QR)
*2 : 2SA1037K(QR)
*3 : MA152WK

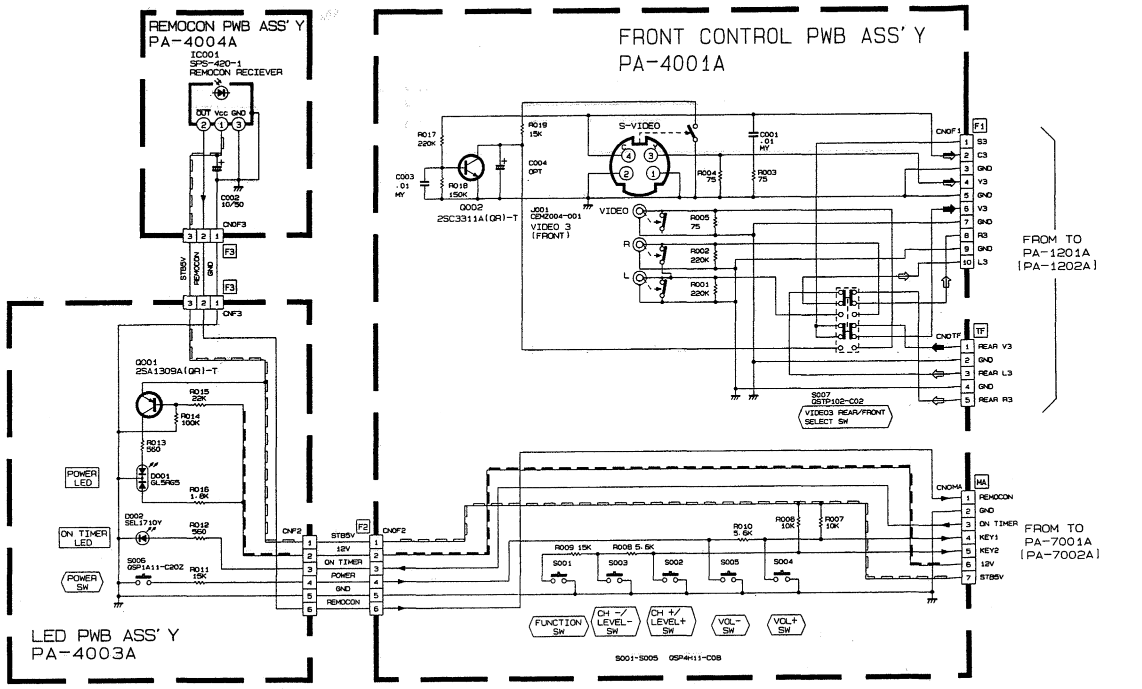
TUNER PWB CIRCUIT DIAGRAMS (PA-1101A [BX6])

Refer to the following PWB pattern. : TUNER PWB PATTERN page 2-49


TU001 CEEM245-A05 V/U/CATV TUNER
RF DIVIDER (ANTENNA A)
SF101 CE41031-202 SAW FILTER
SF102 CE42377-201 SAW FILTER
IC101 LA7577N SUB VIF/SIF & DETECT
Q101 2SC5083(L-P)-T IF AMP
Q103 2SA1037K(QR)-X AFT BUFFER
Q105 2SC2412K(QR)-X VIDEO BUFFER
IC151
IC191 AN78L09-Y 9V REG.
IC902 78L05-Y 5V REG.
IC901 AN7812F 12V REG.
TUNER PWB ASS'Y PA-1101A
CN010
TO PA-7001A
CN009
TO PA-7001A

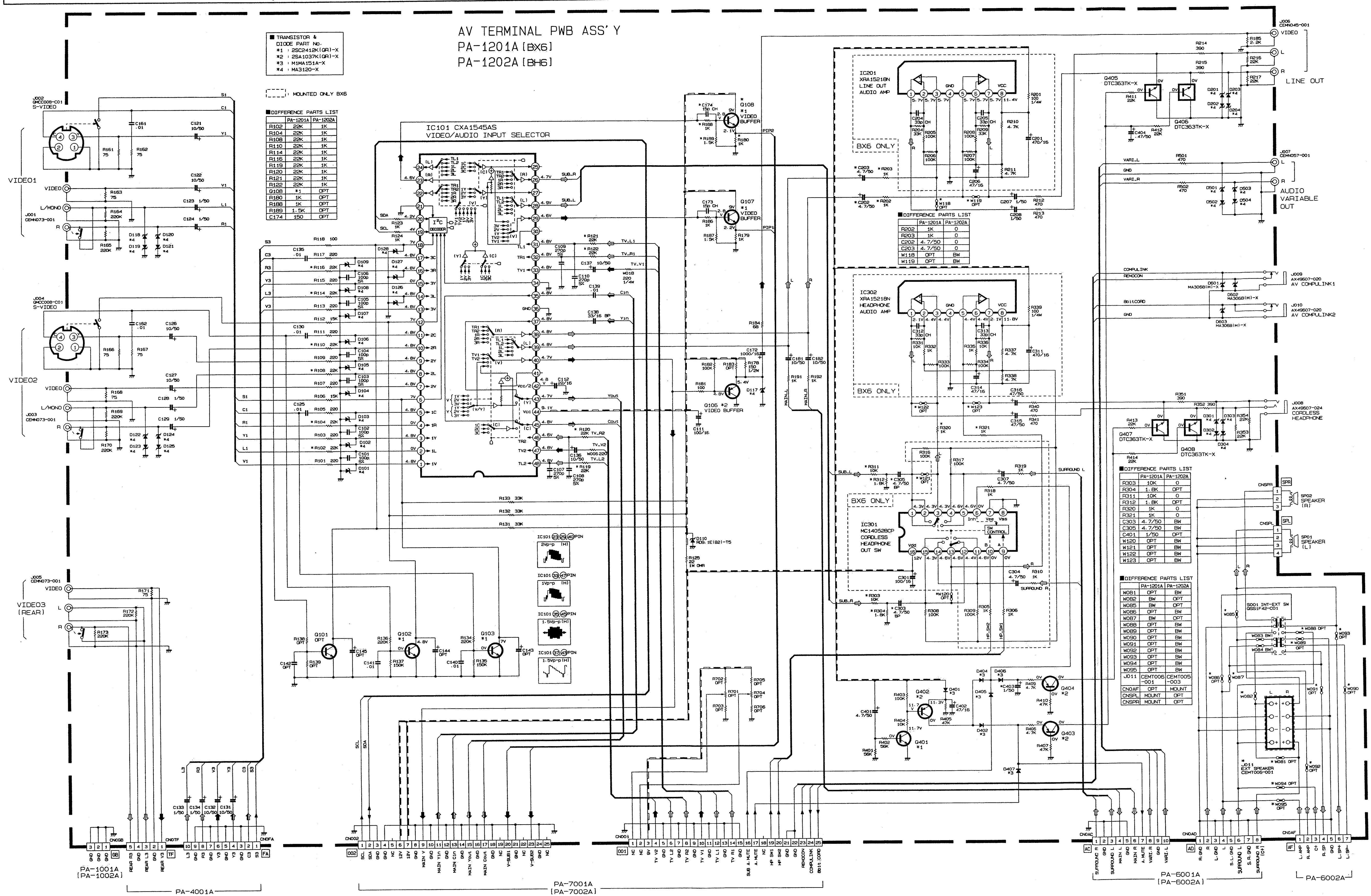
FRONT CONTROL PWB, LED PWB, REMOCON PWB CIRCUIT DIAGRAMS (PA-4001A, PA-4003A, PA-4004A)

Refer to the following PWB pattern. :
FRONT CONTROL PWB, LED PWB, REMOCON PWB PATTERN page 2-50


REMOCON PWB ASS'Y PA-4004A
IC001 SPS-420-1 REMOCON RECIEVER
FRONT CONTROL PWB ASS'Y PA-4001A
S-VIDEO
VIDEO
Q002 2SC3311A(QR)-T
FROM TO PA-1201A [PA-1202A]
S007 VIDEO3 REAR/FRONT SELECT SW
Q001 2SA1309A(QR)-T
POWER LED
ON TIMER LED
POWER SW
FROM TO PA-7001A [PA-7002A]
FUNCTION SW
CH -/LEVEL- SW
CH +/LEVEL+ SW
VOL- SW
VOL+ SW
LED PWB ASS'Y PA-4003A

AV TERMINAL PWB CIRCUIT DIAGRAMS (PA-1201A [BX6], PA-1202A [BH6])

Refer to the following PWB pattern. : AV TERMINAL PWB PATTERN page 2-51


AV TERMINAL PWB ASS'Y
PA-1201A [BX6]
PA-1202A [BH6]
IC101 CXA1545AS
VIDEO/AUDIO INPUT SELECTOR
IC201 XRA15218N LINE OUT AUDIO AMP
IC302 XRA15218N HEADPHONE AUDIO AMP
IC301 MC14052BCP CORDLESS HEADPHONE OUT SW
BX6 ONLY
VIDEO1
VIDEO2
VIDEO3 (REAR)
S-VIDEO
LINE OUT
AUDIO VARIABLE OUT
AV COMPULINK1
AV COMPULINK2
CORDLESS HEADPHONE
SPEAKER (R)
SPEAKER (L)
S001 INT-EXT SW
J011 EXT SPEAKER
PA-1001A [PA-1002A]
PA-4001A
PA-7001A [PA-7002A]
PA-6001A [PA-6002A]
PA-6002A

■ TRANSISTOR & DIODE PART No.
*1 : 2SC2412K(QR)-X
*2 : 2SA1037K(QR)-X
*3 : M1MA151A-X
*4 : MA3120-X

[dashed box] : MOUNTED ONLY BX6

■DIFFERENCE PARTS LIST

	PA-1201A	PA-1202A
R102	22K	1K
R104	22K	1K
R108	22K	1K
R110	22K	1K
R114	22K	1K
R116	22K	1K
R119	22K	1K
R120	22K	1K
R121	22K	1K
R122	22K	1K
Q108	*1	OPT
R180	1K	OPT
R188	1K	OPT
R189	1.5K	OPT
C174	150	OPT

■DIFFERENCE PARTS LIST

	PA-1201A	PA-1202A
R202	1K	0
R203	1K	0
C202	4.7/50	0
C203	4.7/50	0
W118	OPT	BW
W119	OPT	BW

■DIFFERENCE PARTS LIST

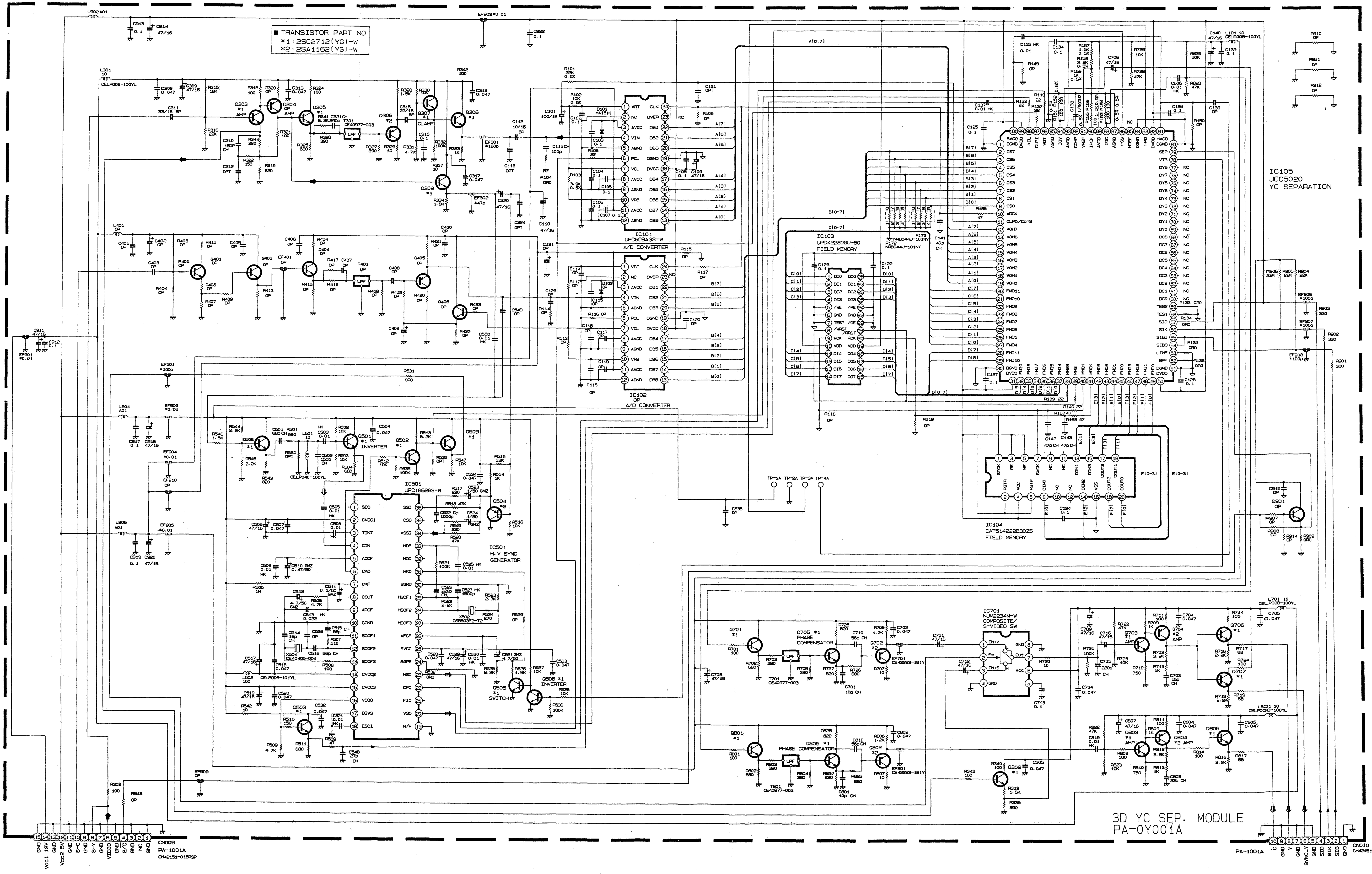
	PA-1201A	PA-1202A
R303	10K	0
R304	1.8K	OPT
R311	10K	0
R312	1.8K	OPT
R320	1K	0
R321	1K	0
C303	4.7/50	BW
C305	4.7/50	BW
C401	1/50	OPT
W120	OPT	BW
W121	OPT	BW
W122	OPT	BW
W123	OPT	BW

■DIFFERENCE PARTS LIST

	PA-1201A	PA-1202A
W081	OPT	BW
W082	BW	OPT
W085	BW	OPT
W086	OPT	BW
W087	BW	OPT
W088	OPT	BW
W089	OPT	BW
W090	OPT	BW
W091	OPT	BW
W092	OPT	BW
W093	OPT	BW
W094	OPT	BW
W095	OPT	BW
J011	CEMT006 -001	CEMT005 -003
CN0AF	OPT	MOUNT
CNSPL	MOUNT	OPT
CNSPR	MOUNT	OPT

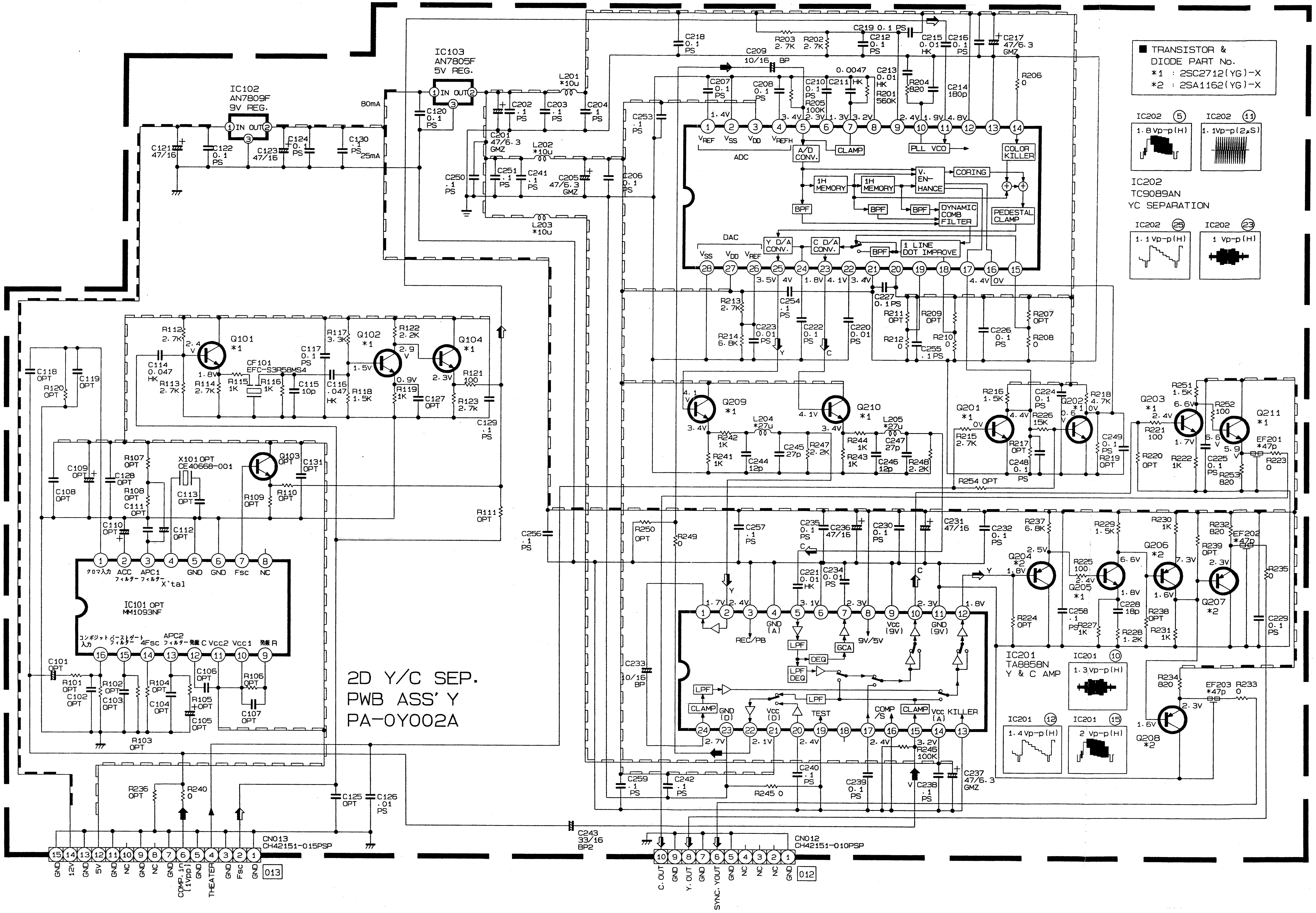
3D YC SEP. MODULE CIRCUIT DIAGRAMS (PA-0Y001A)

**NOTE :This PWB ASS'Y (MODULE) be replaced in its entirety.
Parts within the PWB ASS'Y are not supplied separately.**


■ TRANSISTOR PART NO
*1 : 2SC2712(YG)-W
*2 : 2SA1162(YG)-W
IC101
UPC659AGS-W
A/D CONVERTER
IC102
OP
A/D CONVERTER
IC103
UPD42280GU-60
FIELD MEMORY
IC104
CAT514222BB30ZS
FIELD MEMORY
IC105
JCC5020
YC SEPARATION
IC501
UPC1862GS-W
IC501
H.V SYNC
GENERATOR
IC701
NJM2234M-W
COMPOSITE/
S-VIDEO SW
Q705 *1
PHASE
COMPENSATOR
Q805 *1
PHASE COMPENSATOR
Q501 *1
INVERTER
Q505 *1
SWITCH
Q506 *1
INVERTER
Q307 *1
CLAMP
TP-1A
TP-2A
TP-3A
TP-4A
A[0-7]
B[0-7]
C[0-7]
D[0-7]
E[0-3]
F[0-3]
3D YC SEP. MODULE
PA-0Y001A
CN009
PA-1001A
CH42151-015PSP
GND
Vcc1 12V
GND
Vcc2 5V
GND
S-C
GND
S-Y
GND
VIDEO
GND
S/C
GND
NC
GND
CN010
PA-1001A
CH42151-010PSP
C
GND
Y
GND
SYNC_Y
GND
SID
SIK
SIB
GND

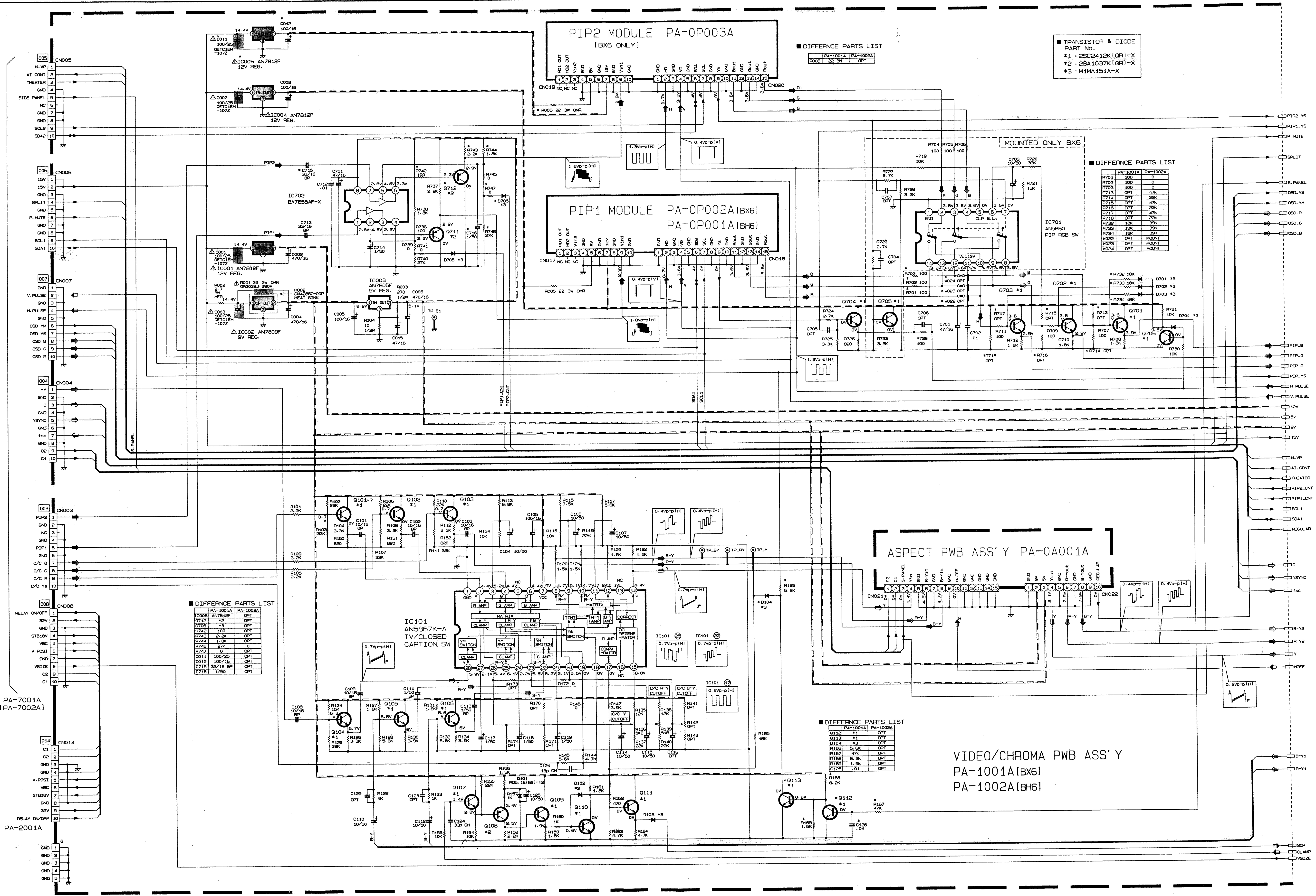
2D YC SEP. PWB CIRCUIT DIAGRAMS (PA-0Y002A)

Refer to the following PWB pattern. : 2D YC SEP. PWB PATTERN page 2-52


2D Y/C SEP.
PWB ASS' Y
PA-0Y002A
■ TRANSISTOR & DIODE PART No.
*1 : 2SC2712(YG)-X
*2 : 2SA1162(YG)-X
IC102 AN7809F 9V REG.
IC103 AN7805F 5V REG.
IC101 OPT MM1093NF
IC202 TC9089AN YC SEPARATION
IC201 TA8858N Y & C AMP
IC202 ⑤ 1.8Vp-p(H)
IC202 ⑪ 1.1Vp-p(2μS)
IC202 ㉕ 1.1Vp-p(H)
IC202 ㉓ 1Vp-p(H)
IC201 ⑩ 1.3Vp-p(H)
IC201 ⑫ 1.4Vp-p(H)
IC201 ⑮ 2Vp-p(H)
Q101 *1
Q102 *1
Q103 OPT
Q104 *1
Q201 *1
Q202 *1
Q203 *1
Q204 *2
Q205 *1
Q206 *2
Q207 *2
Q208 *2
Q209 *1
Q210 *1
Q211 *1
X101 OPT CE40668-001
CF101 EFC-S3R58MS4
L201 *10u
L202 *10u
L203 *10u
L204 *27u
L205 *27u
EF201 *47p
EF202 *47p
EF203 *47p
80mA
25mA
ADC
DAC
A/D CONV.
CLAMP
PLL VCO
COLOR KILLER
1H MEMORY
V. EN-HANCE
CORING
BPF
DYNAMIC COMB FILTER
PEDESTAL CLAMP
Y D/A CONV.
C D/A CONV.
1 LINE DOT IMPROVE
REC/PB
LPF
GCA
DEQ
9V/5V
TEST
COMP /S
Vcc KILLER
CN013 CH42151-015PSP
CN012 CH42151-010PSP
C243 33/16 BP2
GND 12V GND 5V NC GND NC GND COMP. In (1Vp-p) GND THEATER GND Fsc GND 013
C.OUT GND Y.OUT GND SYNC.YOUT GND NC NC NC GND 012

VIDEO / CHROMA PWB CIRCUIT DIAGRAMS (PA-1001A [BX6], PA-1002A [BH6])

Refer to the following PWB pattern. : VIDEO / CHROMA PWB PATTERN page 2-53


PIP2 MODULE PA-0P003A
[BX6 ONLY]
PIP1 MODULE PA-0P002A[BX6]
PA-0P001A[BH6]
MOUNTED ONLY BX6
IC701
AN5860
PIP RGB SW
IC702
BA7655AF-X
IC101
AN5867K-A
TV/CLOSED
CAPTION SW
IC001 AN7812F
12V REG.
IC002 AN7809F
9V REG.
IC003
AN7805F
5V REG.
IC004 AN7812F
12V REG.
IC006 AN7812F
12V REG.
ASPECT PWB ASS' Y PA-0A001A
VIDEO/CHROMA PWB ASS' Y
PA-1001A[BX6]
PA-1002A[BH6]
PA-7001A
[PA-7002A]
PA-2001A
CN005
CN006
CN007
CN004
CN003
CN008
CN014
CN017
CN018
CN019
CN020
CN021
CN022

■ DIFFERNCE PARTS LIST

	PA-1001A	PA-1002A
R006	22 3W	OPT

■ TRANSISTOR & DIODE PART No.
*1 : 2SC2412K(QR)-X
*2 : 2SA1037K(QR)-X
*3 : M1MA151A-X

■ DIFFERNCE PARTS LIST

	PA-1001A	PA-1002A
R701	100	0
R702	100	0
R703	100	0
R713	OPT	47k
R714	OPT	22k
R715	OPT	47k
R716	OPT	22k
R717	OPT	47k
R718	OPT	22k
R732	18K	39K
R733	18K	39K
R734	18K	39K
W022	OPT	MOUNT
W023	OPT	MOUNT
W024	OPT	MOUNT

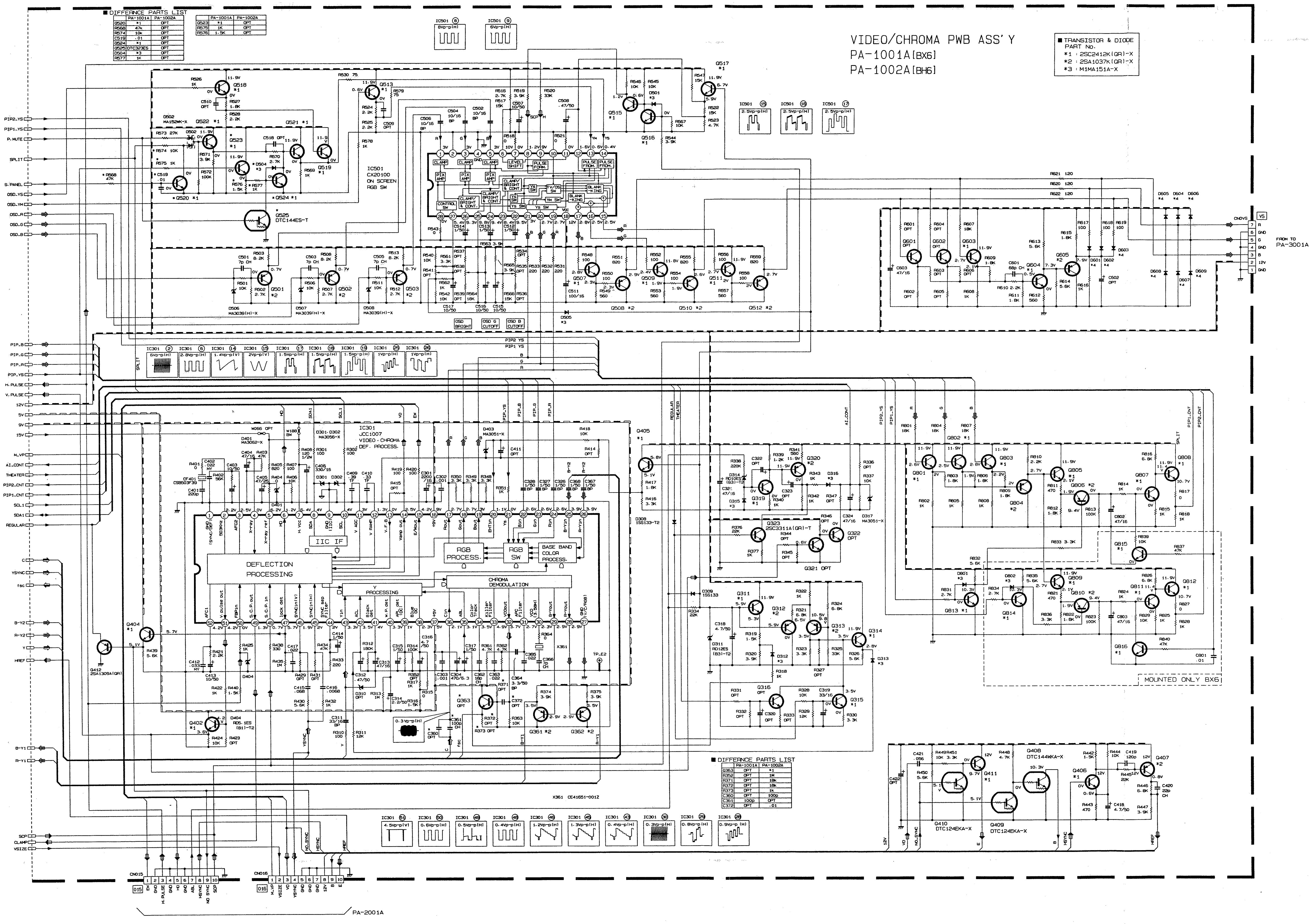
■ DIFFERNCE PARTS LIST

	PA-1001A	PA-1002A
IC006	AN7812F	OPT
Q712	*2	OPT
D706	*3	OPT
R742	100	OPT
R743	2.2k	OPT
R744	1.8k	OPT
R746	27k	0
R747	0	OPT
C011	100/25	OPT
C012	100/16	OPT
C715	33/16 BP	OPT
C716	1/50	OPT

■ DIFFERNCE PARTS LIST

	PA-1001A	PA-1002A
Q112	*1	OPT
Q113	*1	OPT
D104	*3	OPT
R166	5.6K	OPT
R167	47k	OPT
R168	8.2k	OPT
R169	1.5k	OPT
C126	.01	OPT

VIDEO/CHROMA PWB ASS' Y
PA-1001A[BX6]
PA-1002A[BH6]



IC501 CX20100 ON SCREEN RGB SW
IC301 JCC1007 VIDEO・CHROMA DEF. PROCESS.
DEFLECTION PROCESSING
Y PROCESSING
CHROMA DEMODULATION
RGB PROCESS.
RGB SW
BASE BAND COLOR PROCESS.
IIC IF
FROM TO PA-3001A
PA-2001A
MOUNTED ONLY BX6
X361 CE41651-001Z

■ DIFFERNCE PARTS LIST

	PA-1001A	PA-1002A
Q520	*1	OPT
R568	47k	OPT
R574	10k	OPT
C519	.01	OPT
Q524	*1	OPT
Q525	DTC323ES	OPT
D504	*3	OPT
R577	1K	OPT

	PA-1001A	PA-1002A
Q523	*1	OPT
R575	1K	OPT
R576	1.5K	OPT

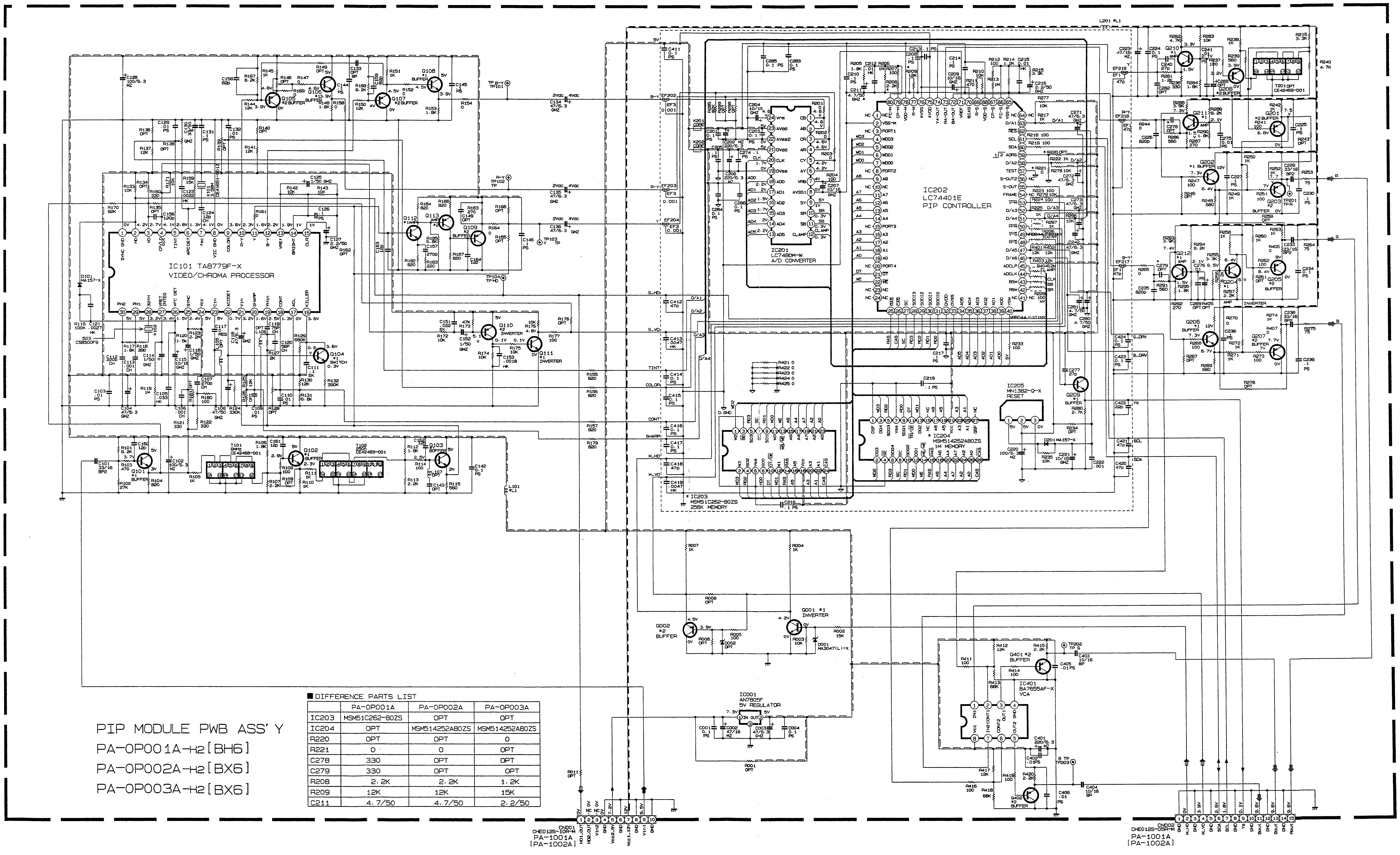
■ TRANSISTOR & DIODE PART No.
*1 : 2SC2412K(QR)-X
*2 : 2SA1037K(QR)-X
*3 : M1MA151A-X

■ DIFFERNCE PARTS LIST

	PA-1001A	PA-1002A
Q363	OPT	*1
R352	OPT	1M
R371	OPT	18k
R372	OPT	18k
R373	OPT	1k
C360	OPT	100p
C361	100p	OPT
C372	OPT	.01

NOTE :This PWB ASS'Y (MODULE) be replaced in its entirety.
Parts within the PWB ASS'Y are not supplied separately.

PIP MODULE CIRCUIT DIAGRAMS (PA-0P002A [BX6], PA-0P003A [BX6], PA-0P001A [BH6])


IC101 TA8779F-X
VIDEO/CHROMA PROCESSOR
IC201 LC7480M-W
A/D CONVERTER
IC202 LC74401E
PIP CONTROLLER
IC203 MSM51C262-80ZS
256K MEMORY
IC204 MSM514252A80ZS
1M MEMORY
IC205 MN1382-Q-X
RESET
IC001 AN7805F
5V REGULATOR
IC401 BA7655AF-X
VCA
Q001 INVERTER
Q002 BUFFER
Q101 BUFFER
Q102 BUFFER
Q104 SWITCH
Q105 BUFFER
Q107 BUFFER
Q110 INVERTER
Q111 INVERTER
Q209 BUFFER
Q401 BUFFER
Q402 BUFFER
T101 CE42468-001
T102 CE42483-001
T201 CE42469-001
L101
L201
CN001
CHE012S-10R-M
PA-1001A
[PA-1002A]
CN002
CHE012S-15R-M
PA-1001A
[PA-1002A]
B-Y
R-Y
Y
S_HD
S_VD
TINT
COLOR
CONT
SHARP
H_HD
H_VD
D/A1
D/A2
D/A3
D/A4
SCL
SDA
G_DRV
B_DRV
YS
R
G
B

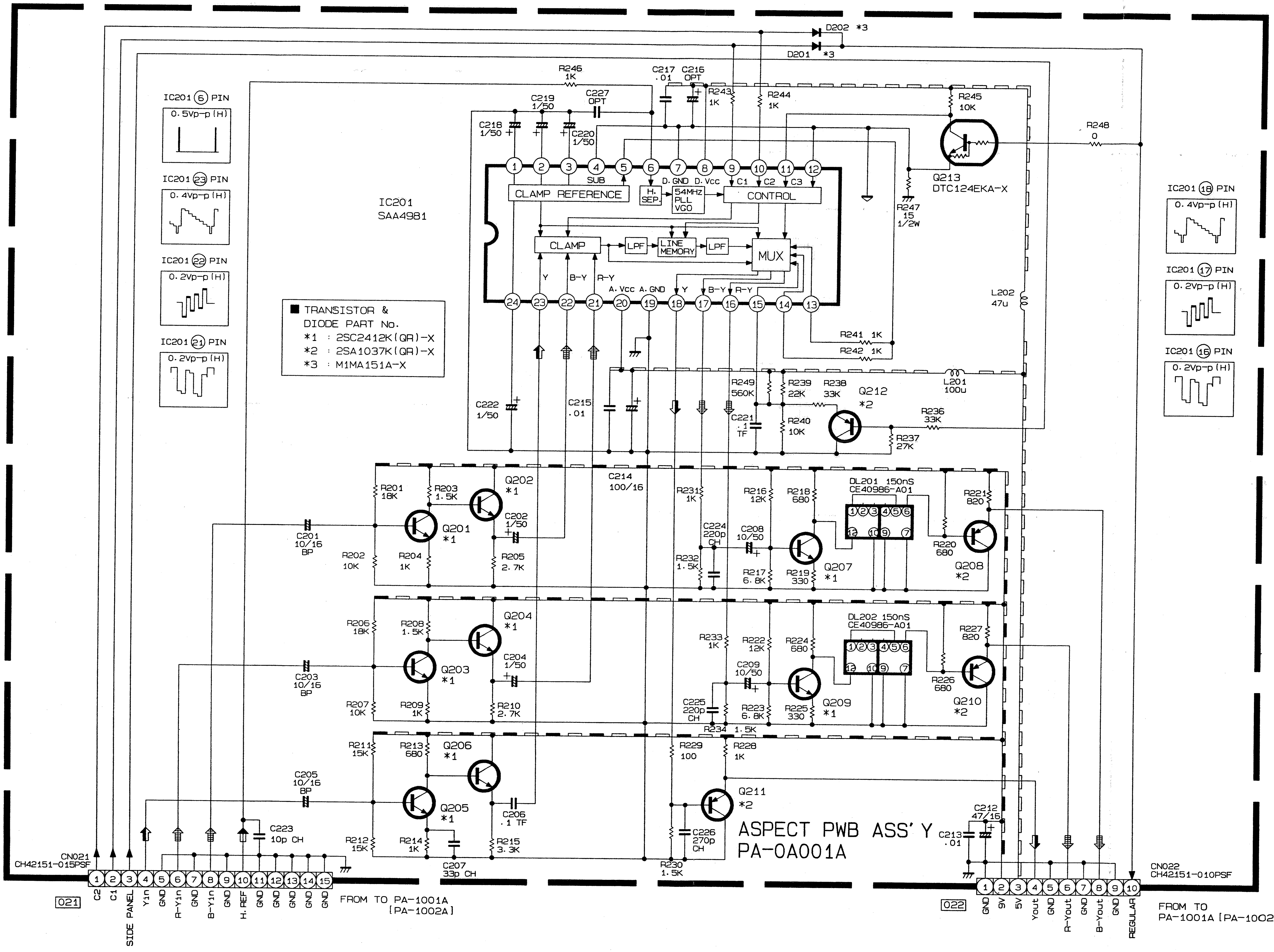
■DIFFERENCE PARTS LIST

	PA-0P001A	PA-0P002A	PA-0P003A
IC203	MSM51C262-80ZS	OPT	OPT
IC204	OPT	MSM514252A80ZS	MSM514252A80ZS
R220	OPT	OPT	0
R221	0	0	OPT
C278	330	OPT	OPT
C279	330	OPT	OPT
R208	2.2K	2.2K	1.2K
R209	12K	12K	15K
C211	4.7/50	4.7/50	2.2/50

PIP MODULE PWB ASS' Y
PA-0P001A-H2[BH6]
PA-0P002A-H2[BX6]
PA-0P003A-H2[BX6]

ASPECT PWB CIRCUIT DIAGRAMS (PA-0A001A)

Refer to the following PWB pattern. : ASPECT PWB PATTERN page 2-54

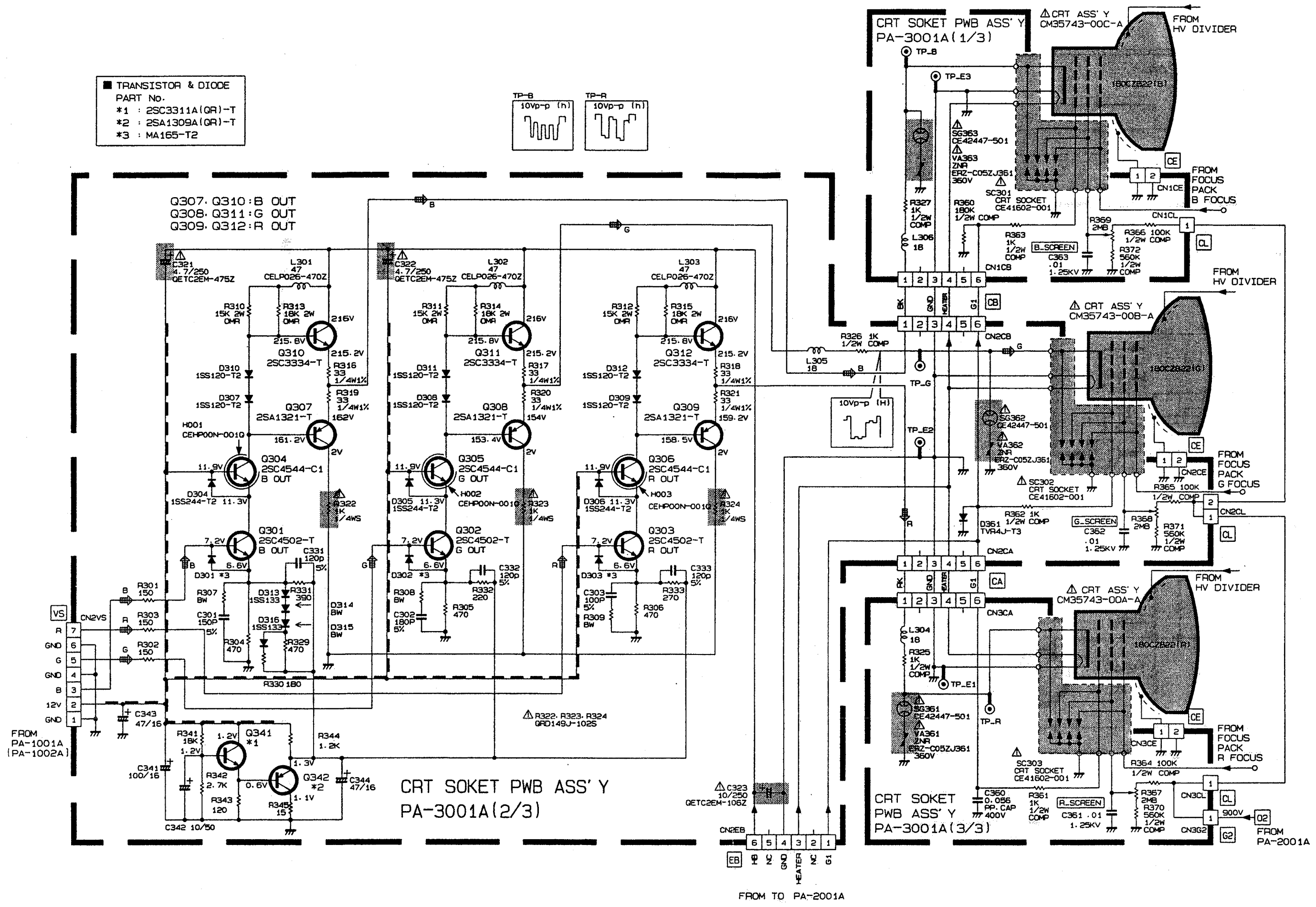


■ TRANSISTOR & DIODE PART No.
*1 : 2SC2412K(QR)-X
*2 : 2SA1037K(QR)-X
*3 : M1MA151A-X

IC201 SAA4981
CLAMP REFERENCE
H. SEP.
54MHz PLL VCO
CONTROL
CLAMP
LPF
LINE MEMORY
MUX
SUB
D. GND
D. Vcc
C1
C2
C3
Y
B-Y
R-Y
A. Vcc
A. GND
IC201 ⑥ PIN 0.5Vp-p (H)
IC201 ㉓ PIN 0.4Vp-p (H)
IC201 ㉒ PIN 0.2Vp-p (H)
IC201 ㉑ PIN 0.2Vp-p (H)
IC201 ⑱ PIN 0.4Vp-p (H)
IC201 ⑰ PIN 0.2Vp-p (H)
IC201 ⑯ PIN 0.2Vp-p (H)
D202 *3
D201 *3
R246 1K
C217 .01
C216 OPT
R243 1K
R244 1K
R245 10K
C219 1/50
C227 OPT
C218 1/50
C220 1/50
R248 0
Q213 DTC124EKA-X
R247 15 1/2W
L202 47u
R241 1K
R242 1K
L201 100u
R249 560K
R239 22K
R238 33K
Q212 *2
R236 33K
R237 27K
R240 10K
C221 .1 TF
C222 1/50
C215 .01
C214 100/16
R201 18K
R203 1.5K
Q202 *1
Q201 *1
C202 1/50
C201 10/16 BP
R202 10K
R204 1K
R205 2.7K
R231 1K
R216 12K
R218 680
DL201 150nS CE40986-A01
R221 820
C224 220p CH
C208 10/50
R220 680
R232 1.5K
R217 6.8K
R219 330
Q207 *1
Q208 *2
R206 18K
R208 1.5K
Q204 *1
Q203 *1
C204 1/50
C203 10/16 BP
R207 10K
R209 1K
R210 2.7K
R233 1K
R222 12K
R224 680
DL202 150nS CE40986-A01
R227 820
C209 10/50
R226 680
C225 220p CH
R223 6.8K
R225 330
Q209 *1
Q210 *2
R234 1.5K
R211 15K
R213 680
Q206 *1
Q205 *1
C205 10/16 BP
C206 .1 TF
R212 15K
R214 1K
R215 3.3K
C207 33p CH
C223 10p CH
R229 100
R228 1K
Q211 *2
C226 270p CH
R230 1.5K
C212 47/16
C213 .01
ASPECT PWB ASS' Y PA-0A001A
CN021 CH42151-015PSF
021
C2
C1
SIDE PANEL
Yin
GND
R-Yin
GND
B-Yin
GND
H.REF
GND
GND
GND
GND
GND
FROM TO PA-1001A [PA-1002A]
CN022 CH42151-010PSF
022
GND
9V
5V
Yout
GND
R-Yout
GND
B-Yout
GND
REGULAR
FROM TO PA-1001A [PA-1002A]

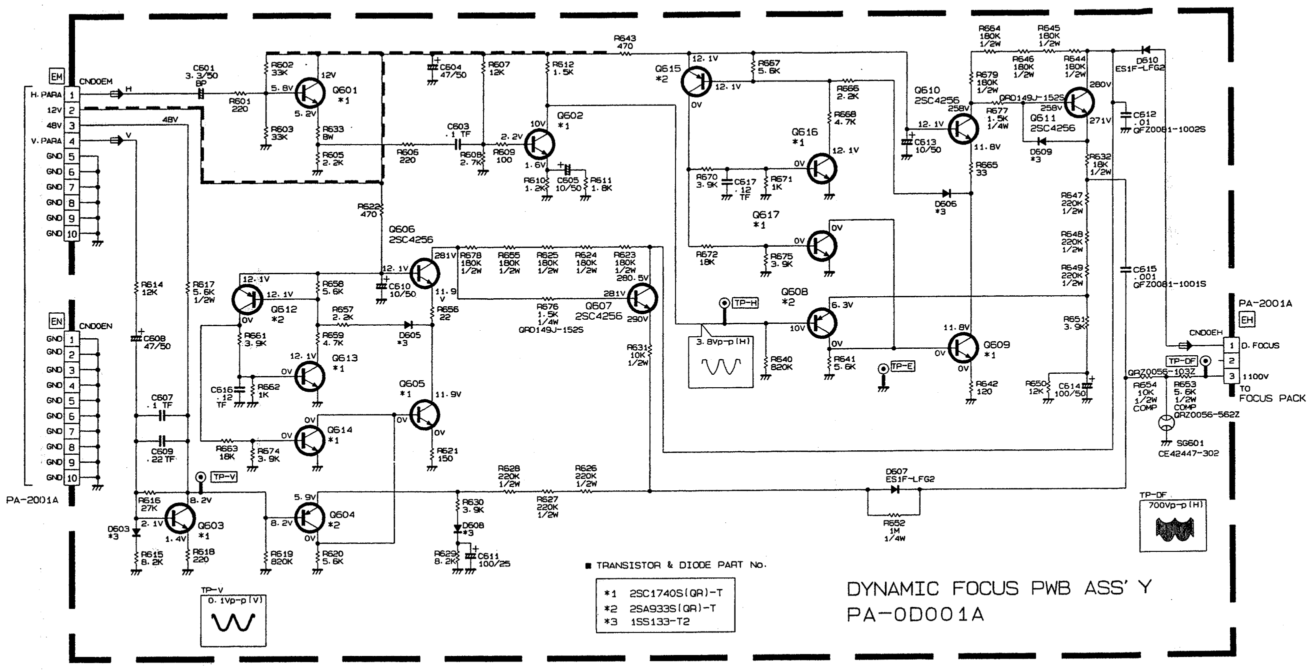
CRT SOCKET PWB CIRCUIT DIAGRAMS (PA-3001A)

Refer to the following PWB pattern. : CRT SOCKET PWB PATTERN page 2-55


■ TRANSISTOR & DIODE PART No.
*1 : 2SC3311A(QR)-T
*2 : 2SA1309A(QR)-T
*3 : MA165-T2
Q307·Q310:B OUT
Q308·Q311:G OUT
Q309·Q312:R OUT
CRT SOKET PWB ASS'Y PA-3001A(1/3)
CRT SOKET PWB ASS'Y PA-3001A(2/3)
CRT SOKET PWB ASS'Y PA-3001A(3/3)
FROM HV DIVIDER
FROM FOCUS PACK B FOCUS
FROM FOCUS PACK G FOCUS
FROM FOCUS PACK R FOCUS
FROM PA-1001A (PA-1002A)
FROM TO PA-2001A
FROM PA-2001A

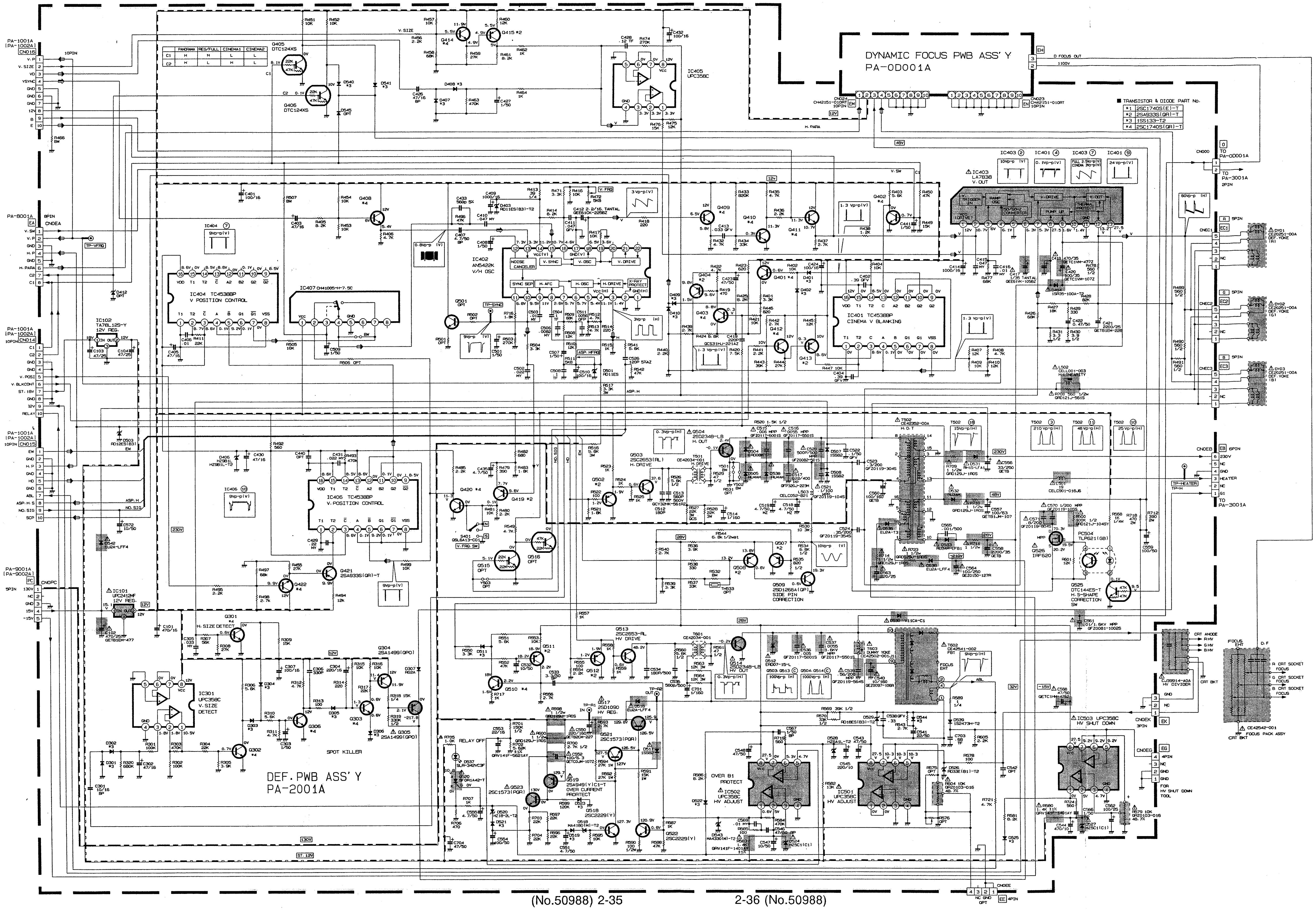
DYNAMIC FOCUS PWB CIRCUIT DIAGRAMS (PA-0D001A)

Refer to the following PWB pattern. : DYNAMIC FOCUS PWB PATTERN 2-56page,


DYNAMIC FOCUS PWB ASS'Y PA-0D001A
■ TRANSISTOR & DIODE PART No.
*1 2SC1740S(QR)-T
*2 2SA933S(QR)-T
*3 1SS133-T2
PA-2001A
TO FOCUS PACK

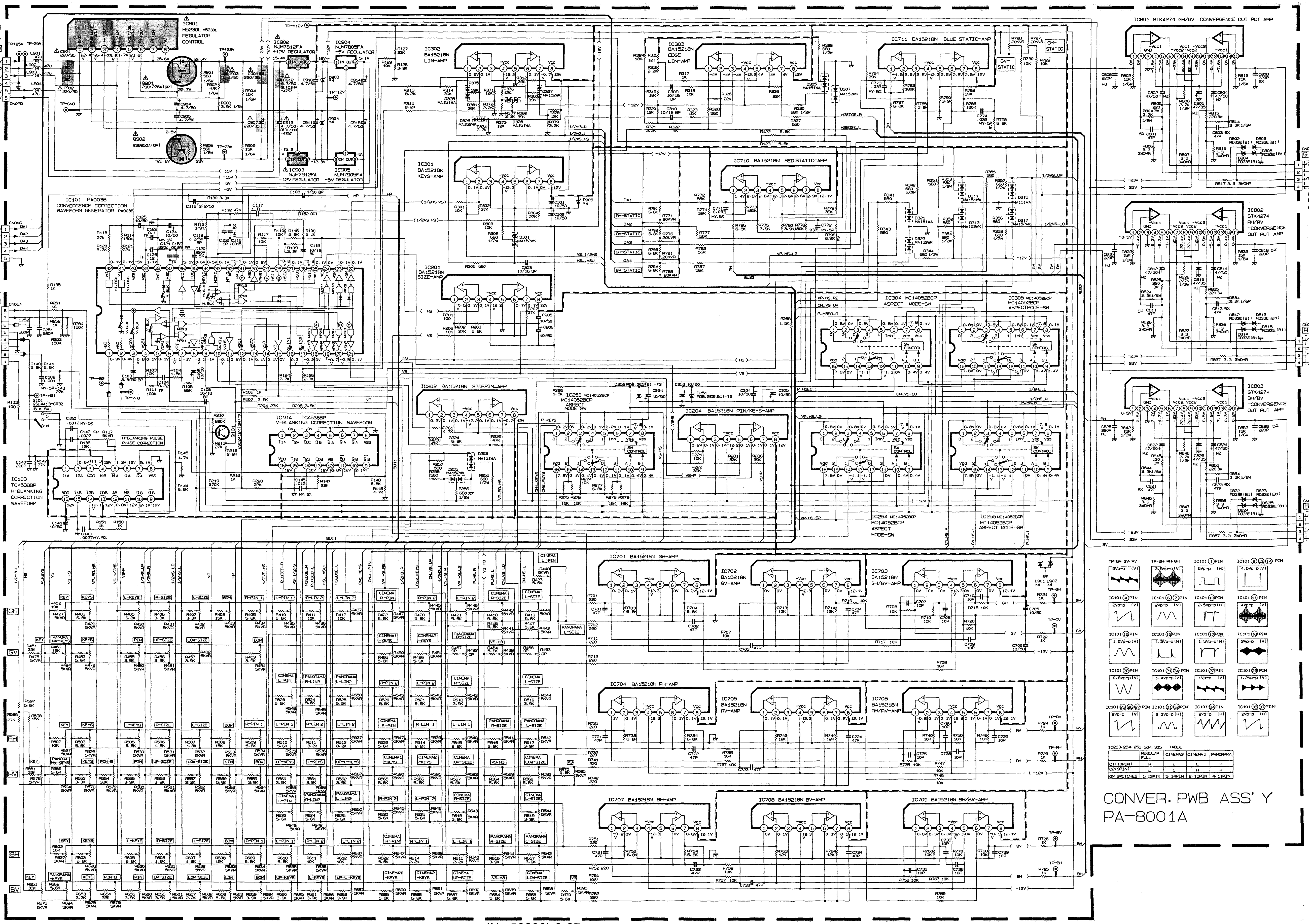
DEF. PWB CIRCUIT DIAGRAMS (PA-2001A)

Refer to the following PWB pattern. : DEF. PWB PATTERN page 2-57


DYNAMIC FOCUS PWB ASS'Y
PA-0D001A
DEF.PWB ASS'Y
PA-2001A
■ TRANSISTOR & DIODE PART NO.
*1 2SC1740S(E)-T
*2 2SA933S(QR)-T
*3 1SS133-T2
*4 2SC1740S(QR)-T
PA-1001A (PA-1002A) CN015 10PIN
PA-8001A EA 8PIN CN0EA
PA-1001A (PA-1002A) CN014 10PIN
PA-1001A (PA-1002A) CN015 10PIN
PA-9001A (PA-9002A) PC 5PIN CN0PC
IC405 UPC358C
IC404 TC4538BP V POSITION CONTROL
IC407 CH41005-H-7.5C
IC402 AN5422K V/H OSC
IC401 TC4538BP CINEMA V BLANKING
IC403 LA7838 V.OUT
IC102 TA78L12S-Y 12V REG.
IC406 TC4538BP V.POSITION CONTROL
IC101 UPC2412HF 12V REG.
IC301 UPC358C V.SIZE DETECT
IC502 UPC358C HV ADJUST
IC501 UPC358C HV ADJUST
IC503 UPC358C HV SHUT DOWN
Q503 2SC2653(RL) H.DRIVE
Q504 2SD2348-LB H.OUT
Q509 2SD1266A(QP) SIDE PIN CORRECTION
Q525 DTC144ES-T H.S-SHAPE CORRECTION SW
Q526 IRF620
Q513 2SC2653-RL HV DRIVE
Q514 2SD2348-LB HV OUT
Q517 2SD1090 HV REG.
Q521 2SC1573(PQR)
Q519 2SA949(Y)C1-T OVER CURRENT PROTECT
Q518 2SC2229(Y)
Q522 2SC2229(Y)
Q523 2SC1573(PQR)
Q305 2SA1499(QPO)
Q304 2SA1499(QPO)
Q421 2SA933S(QR)-T
Q405 DTC124XS
Q406 DTC124XS
H.SIZE DETECT
SPOT KILLER
OVER B1 PROTECT
RELAY OFF
PC504 TLP621(GB)
T502 CE42352-00A H.O.T
T601 CE42034-001
T501 CE42034-001 H.DRIVE
T602 CE42541-002 FBT
T603 DUMMY YOKE CE42502-001
L502 CELL001-003 H.LINEARITY
CN0EC1 5PIN DY01 CE20251-00A DEF.YOKE (R)
CN0EC2 5PIN DY02 CE20251-00A DEF.YOKE (G)
CN0EC3 5PIN DY03 CE20251-00A DEF.YOKE (B)
CN0EB 6PIN TO PA-3001A
CN000 TO PA-0D001A TO PA-3001A 2PIN
CN0EK 3PIN
CN0EG 4PIN FOR HV SHUT DOWN TOOL
CN0EE 4PIN
CN024 CH42151-010RT 10PIN
CN023 CH42151-010RT 10PIN
CE42542-001 FOCUS PACK ASSY
CRT ANODE R HV G HV B HV
CJ39914-A0A HV DIVIDER
R CRT SOCKET FOCUS
G CRT SOCKET FOCUS
B CRT SOCKET FOCUS
CRT BKT
PANORAMA REG/FULL CINEMA1 CINEMA2
C1 H H L L
C2 H L H L

CONVERGENCE PWB CIRCUIT DIAGRAMS (PA-8001A)

Refer to the following PWB pattern. : CONVERGENCE PWB PATTERN page 2-59

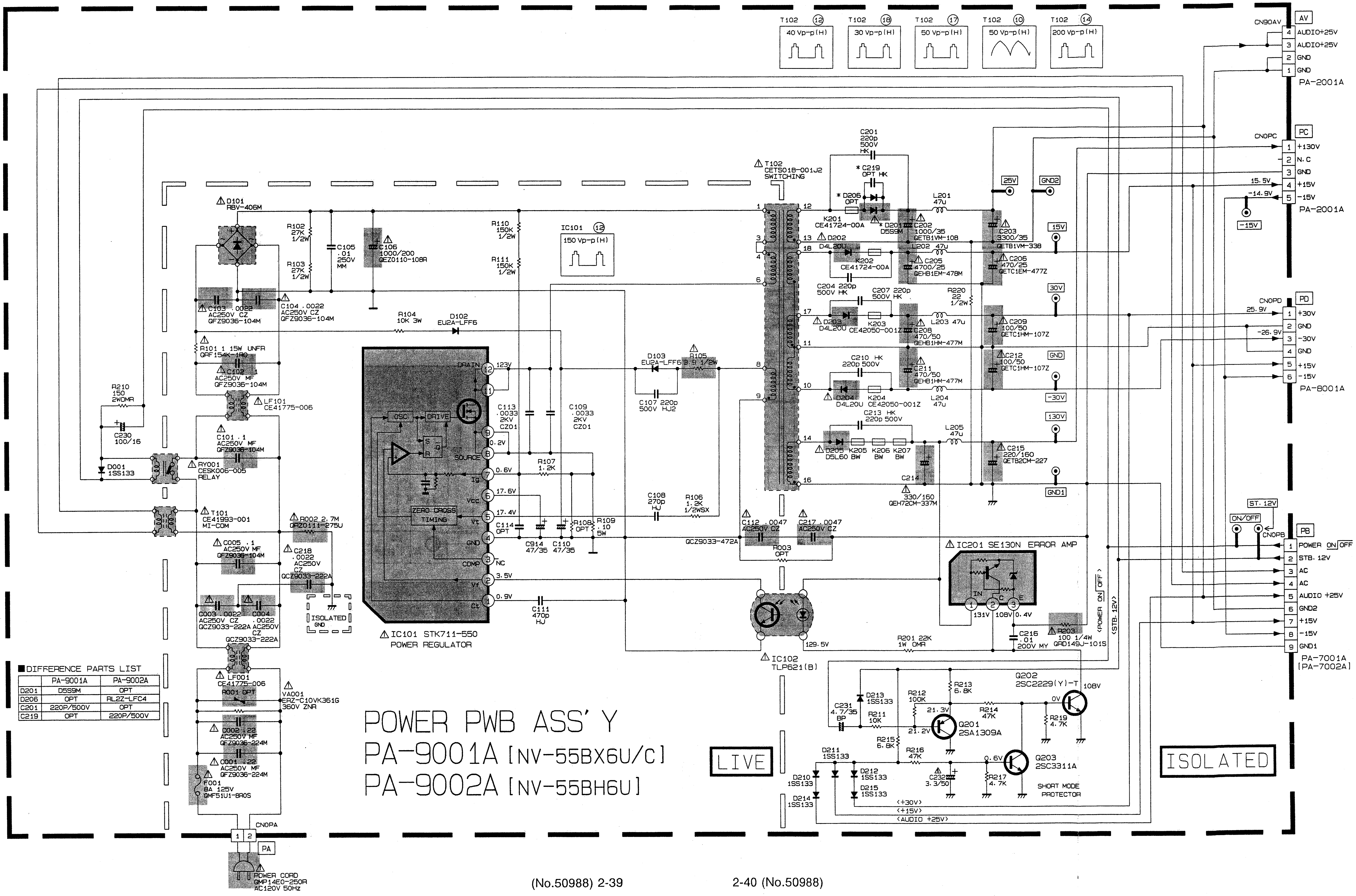

TO PA-9001A [PA-9002A] POWER PWB ASS' Y
TO PA-7001A [PA-7002A] MICOM PWB ASS' Y
TO PA-2001A DEF PWB ASS' Y
IC901 M5230L REGULATOR CONTROL
IC902 NJM7812FA +12V REGULATOR
IC904 NJM7805FA +5V REGULATOR
IC903 NJM7912FA -12V REGULATOR
IC905 NJM7905FA -5V REGULATOR
Q901 2SD1276A(QP)
Q902 2SB950A(QP)
IC101 PA0036 CONVERGENCE CORRECTION WAVEFORM GENERATOR
IC103 TC4538BP H-BLANKING CORRECTION WAVEFORM
IC104 TC4538BP V-BLANKING CORRECTION WAVEFORM
H-BLANKING PULSE PHASE CORRECTION
IC302 BA15218N LIN-AMP
IC301 BA15218N KEYS-AMP
IC201 BA15218N SIZE-AMP
IC202 BA15218N SIDEPIN.AMP
IC303 BA15218N EDGE LIN-AMP
IC711 BA15218N BLUE STATIC-AMP
IC710 BA15218N RED STATIC-AMP
IC253 MC14052BCP ASPECT MODE-SW
IC204 BA15218N PIN/KEYS-AMP
IC304 MC14052BCP ASPECT MODE-SW
IC305 MC14052BCP ASPECT MODE-SW
IC254 MC14052BCP ASPECT MODE-SW
IC255 MC14052BCP ASPECT MODE-SW
IC701 BA15218N GH-AMP
IC702 BA15218N GV-AMP
IC703 BA15218N GH/GV-AMP
IC704 BA15218N RH-AMP
IC705 BA15218N RV-AMP
IC706 BA15218N RH/RV-AMP
IC707 BA15218N BH-AMP
IC708 BA15218N BV-AMP
IC709 BA15218N BH/BV-AMP
IC801 STK4274 GH/GV -CONVERGENCE OUT PUT AMP
IC802 STK4274 RH/RV -CONVERGENCE OUT PUT AMP
IC803 STK4274 BH/BV -CONVERGENCE OUT PUT AMP
GREEN CONVER. YOKE CE20251-00A
RED CONVER. YOKE CE20251-00A
BLUE CONVER. YOKE CE20251-00A
IC101 ③ 2Vp-p(V)
IC101 ⑤ 0.5Vp-p(V)
IC101 ⑥ 1.2Vp-p(V)
IC101 ⑨ 1.8Vp-p(H)
IC101 ⑪ 0.2Vp-p(V)
IC101 ⑭ 1.6Vp-p(V)
IC101 ⑳ 1.4Vp-p(H)
IC101 ㉑ 1.7Vp-p(H)
IC101 ㉝ 0.3Vp-p(V)
IC103 ④ 1Vp-p(H)
IC104 ⑫ 1Vp-p(V)
TP-BV.GV.RV 5Vp-p (V)
TP-BH.RH.GH 3.5Vp-p (H)
IC101 ① PIN 5Vp-p (H)
IC101 ②⑬⑭ PIN 4.5Vp-p(V)
IC101 ④ PIN 2Vp-p (V)
IC101 ⑤⑦ PIN 2Vp-p (V)
IC101 ⑩ PIN 2.5Vp-p (H)
IC101 ⑪ PIN 4Vp-p (V)
IC101 ⑮ PIN 1.5Vp-p(V)
IC101 ⑯ PIN 1.5Vp-p (H)
IC101 ⑰ PIN 1.5Vp-p (H)
IC101 ⑱ PIN 2Vp-p (V)
IC101 ㉒ PIN 0.8Vp-p(V)
IC101 ㉓ PIN 1.4Vp-p(V)
IC101 ㉔ PIN 1Vp-p (V)
IC101 ㉘ PIN 1.2Vp-p (V)
IC101 ㉕㉖㉗ PIN 2Vp-p (V)
IC101 ㉛㉜ PIN 2.3Vp-p (H)
IC101 ㉞ PIN 2Vp-p (H)
IC101 ㉟㊲ PIN 2Vp-p (H)
CONVER. PWB ASS' Y PA-8001A

IC253.254.255.304.305 TABLE

	REGULAR FULL	CINEMA2	CINEMA 1	PANORAMA
C1(10PIN)	H	L	L	H
C2(9PIN)	L	L	H	H
ON SWITCHES	1. 12PIN	5. 14PIN	2. 15PIN	4. 11PIN

POWER PWB CIRCUIT DIAGRAMS (PA-9001A [BX6], PA-9002A (BH6))

Refer to the following PWB pattern. : POWER PWB PATTERN page 2-61

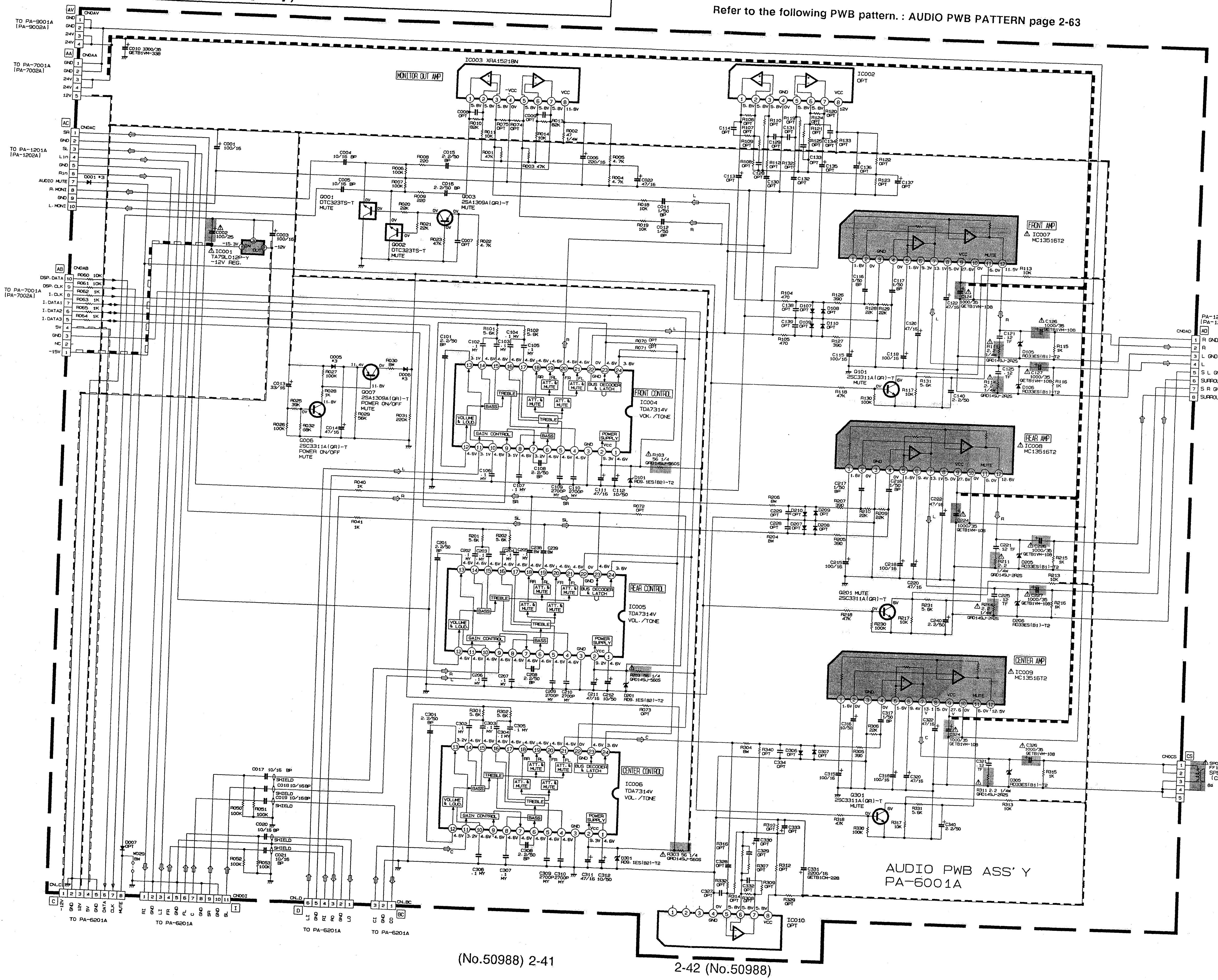

POWER PWB ASS' Y
PA-9001A [NV-55BX6U/C]
PA-9002A [NV-55BH6U]
LIVE
ISOLATED
T102 ⑫ 40 Vp-p(H)
T102 ⑱ 30 Vp-p(H)
T102 ⑰ 50 Vp-p(H)
T102 ⑩ 50 Vp-p(H)
T102 ⑭ 200 Vp-p(H)
IC101 ⑫ 150 Vp-p(H)
⚠ IC101 STK711-550 POWER REGULATOR
⚠ T102 CETS018-001J2 SWITCHING
⚠ IC102 TLP621(B)
⚠ IC201 SE130N ERROR AMP
Q201 2SA1309A
Q202 2SC2229(Y)-T
Q203 2SC3311A
SHORT MODE PROTECTOR
⚠ D101 RBV-406M
⚠ RY001 CESK006-005 RELAY
⚠ T101 CE41993-001 MI-COM
⚠ LF101 CE41775-006
⚠ LF001 CE41775-006
F001 8A 125V QMF51U1-8R0S
⚠ POWER CORD QMP14E0-250R AC120V 50Hz
CNOPA
PA
CN90AV
AV
4 AUDIO+25V
3 AUDIO+25V
2 GND
1 GND
PA-2001A
CNOPC
PC
1 +130V
2 N.C
3 GND
4 +15V
5 -15V
PA-2001A
CNOPD
PD
1 +30V
2 GND
3 -30V
4 GND
5 +15V
6 -15V
PA-8001A
CNOPB
PB
1 POWER ON/OFF
2 STB. 12V
3 AC
4 AC
5 AUDIO +25V
6 GND2
7 +15V
8 -15V
9 GND1
PA-7001A
[PA-7002A]

■DIFFERENCE PARTS LIST

	PA-9001A	PA-9002A
D201	D5S9M	OPT
D206	OPT	RL2Z-LFC4
C201	220P/500V	OPT
C219	OPT	220P/500V

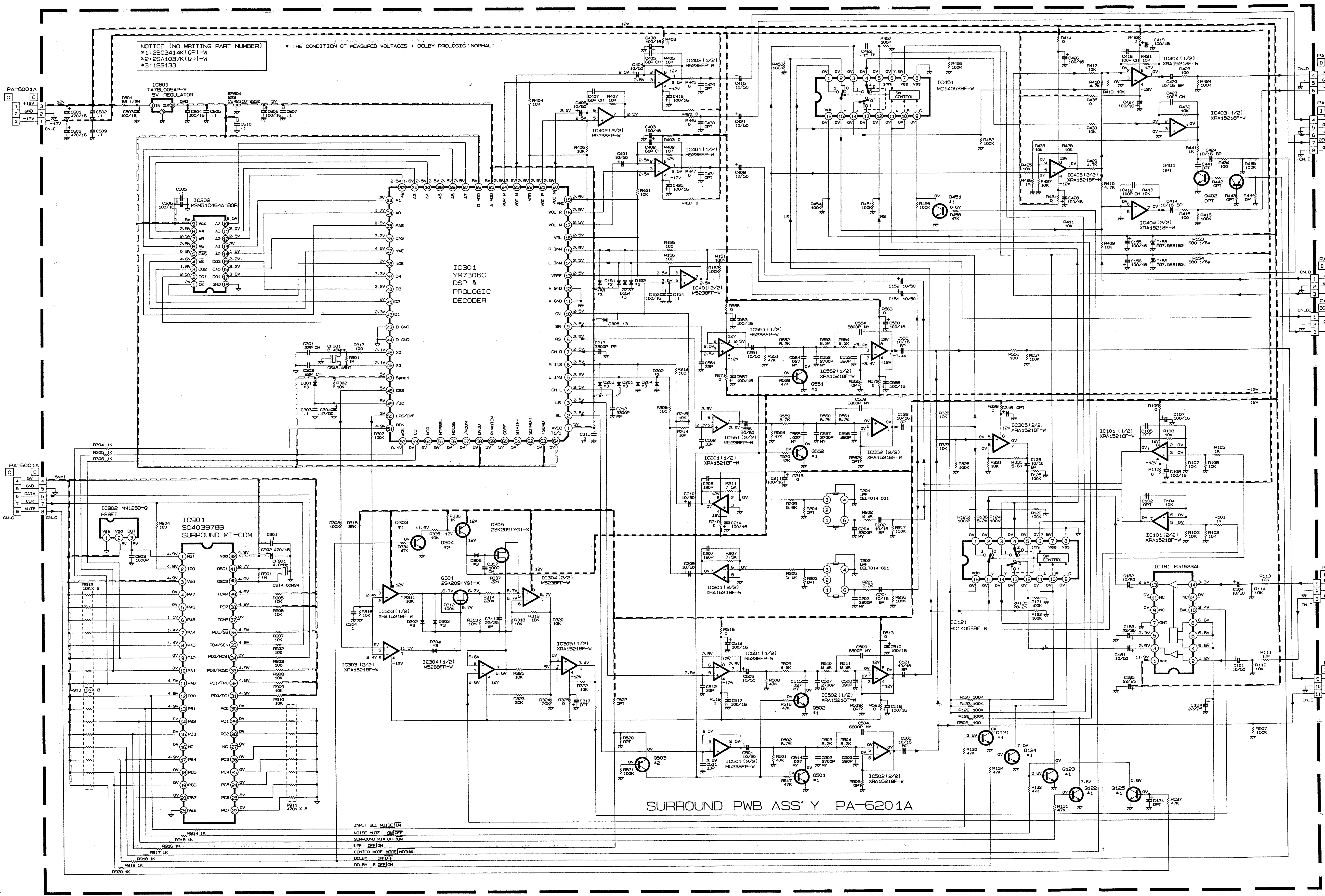
AUDIO PWB CIRCUIT DIAGRAMS (PA-6001A [BX6])

Refer to the following PWB pattern. : AUDIO PWB PATTERN page 2-63


TO PA-9001A [PA-9002A]
TO PA-7001A [PA-7002A]
TO PA-1201A [PA-1202A]
TO PA-7001A [PA-7002A]
CNDAV
CNDAA
CNDAC
CNDAB
MONITOR OUT AMP
IC003 XRA15218N
IC002 OPT
IC001 TA79L012P-Y -12V REG.
Q001 DTC323TS-T MUTE
Q002 DTC323TS-T MUTE
Q003 2SA1309A(QR)-T MUTE
Q006 2SC3311A(QR)-T POWER ON/OFF MUTE
Q007 2SA1309A(QR)-T POWER ON/OFF MUTE
FRONT AMP
IC007 MC13516T2
REAR AMP
IC008 MC13516T2
CENTER AMP
IC009 MC13516T2
FRONT CONTROL
IC004 TDA7314V VOL./TONE
REAR CONTROL
IC005 TDA7314V VOL./TONE
CENTER CONTROL
IC006 TDA7314V VOL./TONE
VOLUME & LOUD.
GAIN CONTROL
TREBLE
BASS
ATT. & MUTE
BUS DECODER & LATCH
POWER SUPPLY
Q101 2SC3311A(QR)-T MUTE
Q201 MUTE 2SC3311A(QR)-T
Q301 2SC3311A(QR)-T MUTE
PA-1201A [PA-1202A]
CNDAD
R GND
R
L GND
L
S L GND
SURROUND L
S R GND
SURROUND R
CNDCS
SP03 FF120-G3T SPEAKER (CENTER)
IC010 OPT
TO PA-6201A
TO PA-6201A
TO PA-6201A
TO PA-6201A
CNDDI
AUDIO PWB ASS' Y PA-6001A

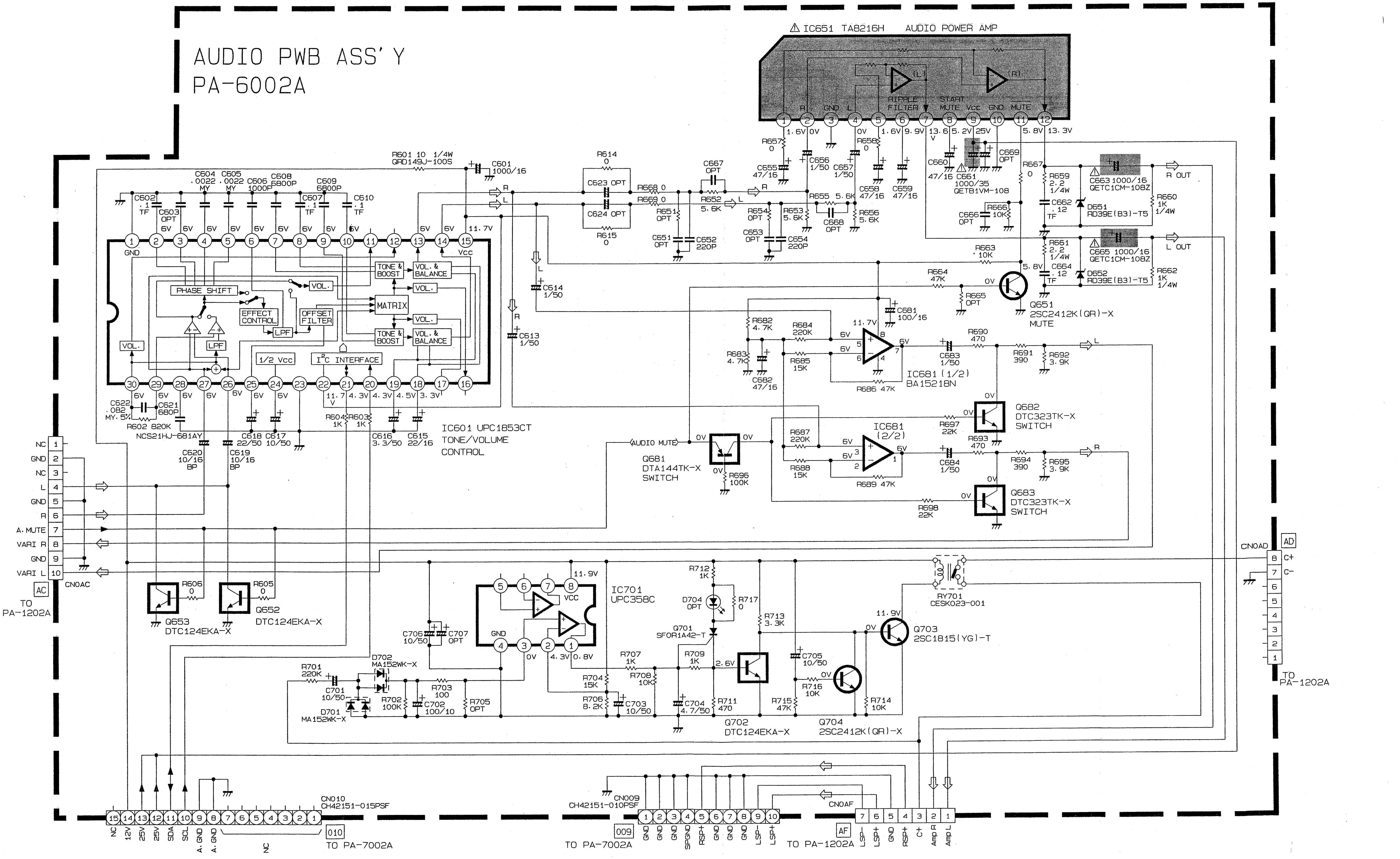
SURROUND PWB CIRCUIT DIAGRAMS (PA-6201A [BX6])

Refer to the following PWB pattern. : SURROUND PWB PATTERN page 2-65


NOTICE (NO WRITING PART NUMBER)
*1:2SC2414K(QR)-W
*2:2SA1037K(QR)-W
*3:1SS133
* THE CONDITION OF MEASURED VOLTAGES : DOLBY PROLOGIC 'NORMAL'
PA-6001A
IC601 TA78L005AP-Y 5V REGULATOR
EF601 CE42110-2232
IC302 MSM51C464A-80R
IC301 YM7306C DSP & PROLOGIC DECODER
IC402(1/2) M5238FP-W
IC402(2/2) M5238FP-W
IC401(1/2) M5238FP-W
IC401(2/2) M5238FP-W
IC451 MC14053BF-W
IC404(1/2) XRA15218F-W
IC404(2/2) XRA15218F-W
IC403(1/2) XRA15218F-W
IC403(2/2) XRA15218F-W
IC551(1/2) M5238FP-W
IC551(2/2) M5238FP-W
IC552(1/2) XRA15218F-W
IC552(2/2) XRA15218F-W
IC201(1/2) XRA15218F-W
IC201(2/2) XRA15218F-W
T201 LPF CELT014-001
T202 LPF CELT014-001
IC305(1/2) XRA15218F-W
IC305(2/2) XRA15218F-W
IC101(1/2) XRA15218F-W
IC101(2/2) XRA15218F-W
IC121 MC14053BF-W
IC181 M51523AL
IC902 MN1280-Q RESET
IC901 SC403978B SURROUND MI-COM
CF901 4.0MHz CST4.00MGW
IC303(1/2) XRA15218F-W
IC303(2/2) XRA15218F-W
IC304(1/2) M5238FP-W
IC304(2/2) M5238FP-W
Q301 2SK209(YG)-X
Q305 2SK209(YG)-X
IC501(1/2) M5238FP-W
IC501(2/2) M5238FP-W
IC502(1/2) XRA15218F-W
IC502(2/2) XRA15218F-W
INPUT SEL NOISE IN
NOISE MUTE ON OFF
SURROUND MIX OFF ON
LPF OFF ON
CENTER MODE WIDE NORMAL
DOLBY ON OFF
DOLBY S OFF ON
SURROUND PWB ASS'Y PA-6201A

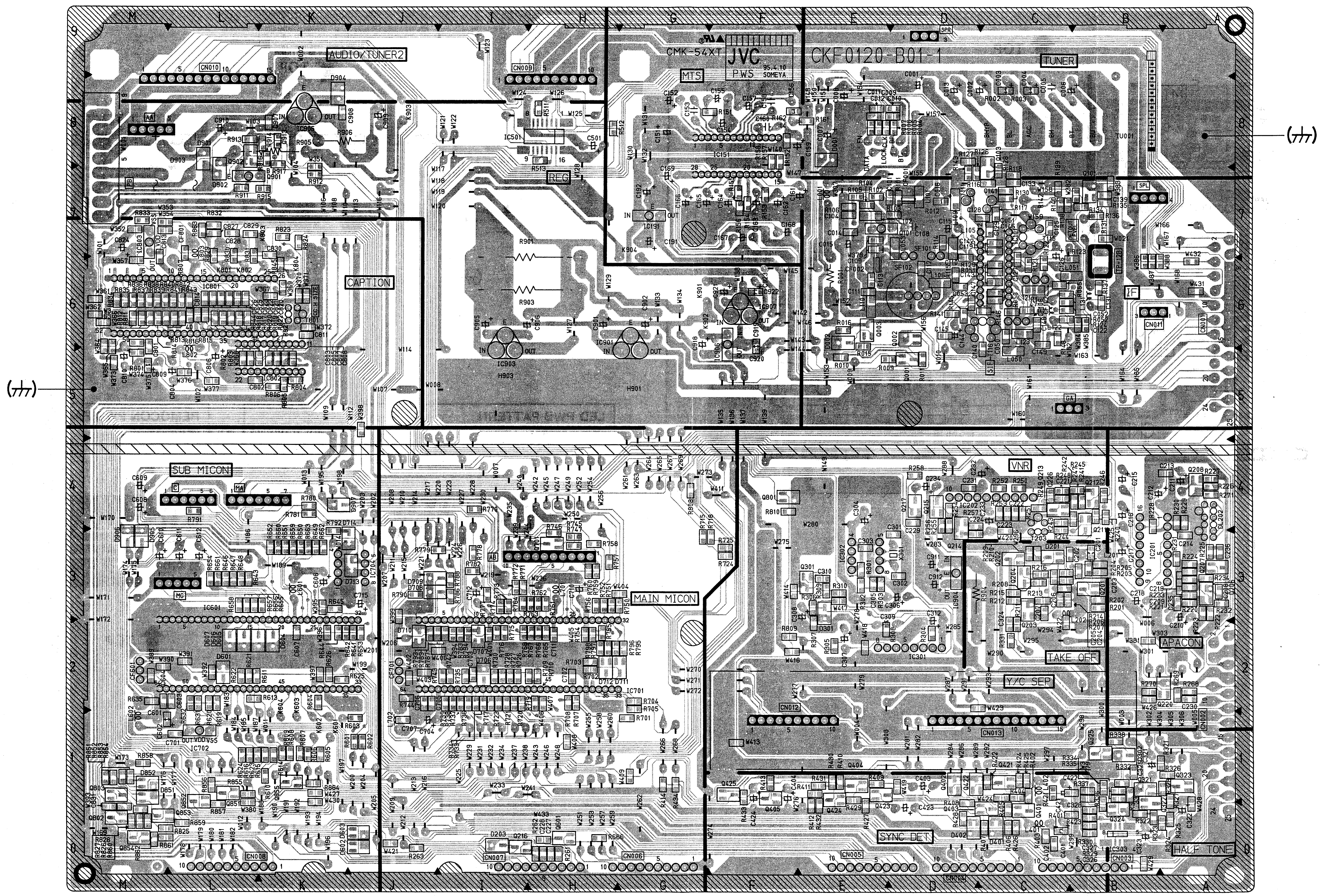
AUDIO PWB CIRCUIT DIAGRAMS (PA-6002A [BH6])

Refer to the following PWB pattern. : AUDIO PWB PATTERN page 2-67

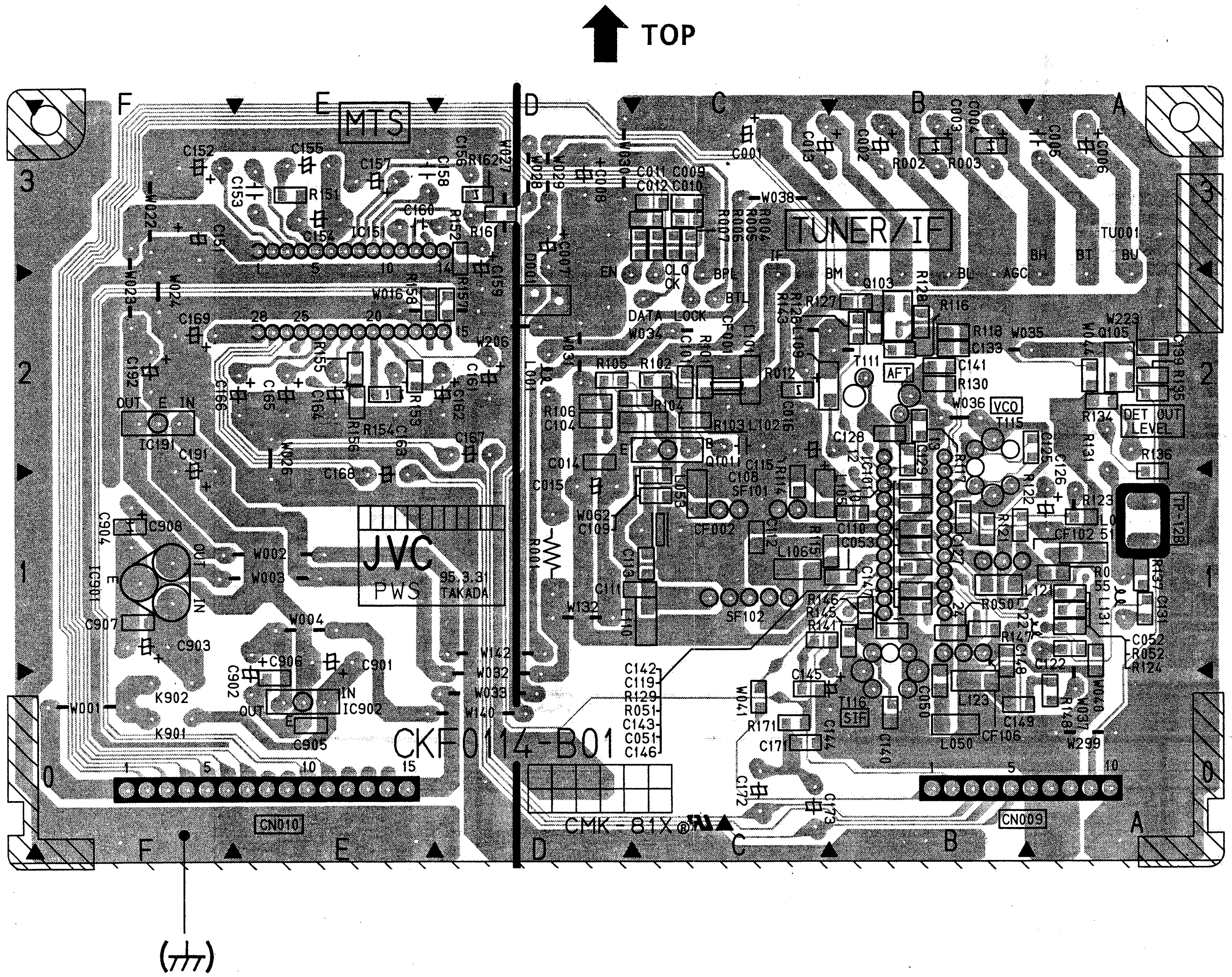

AUDIO PWB ASS'Y
PA-6002A
⚠ IC651 TA8216H AUDIO POWER AMP
RIPPLE FILTER
START MUTE
Vcc
GND
MUTE
IC601 UPC1853CT
TONE/VOLUME CONTROL
PHASE SHIFT
EFFECT CONTROL
OFFSET FILTER
MATRIX
TONE & BOOST
VOL. & BALANCE
VOL.
LPF
1/2 Vcc
I²C INTERFACE
IC681 (1/2)
BA15218N
IC681 (2/2)
Q651
2SC2412K(QR)-X
MUTE
Q682
DTC323TK-X
SWITCH
Q683
DTC323TK-X
SWITCH
Q681
DTA144TK-X
SWITCH
AUDIO MUTE
R OUT
L OUT
D651
RD39E(B3)-T5
D652
RD39E(B3)-T5
C663 1000/16
QETC1CM-108Z
C665 1000/16
QETC1CM-108Z
C661 1000/35
QETB1VM-108
IC701
UPC358C
RY701
CESK023-001
Q703
2SC1815(YG)-T
Q704
2SC2412K(QR)-X
Q702
DTC124EKA-X
Q701
SFOR1A42-T
D704
OPT
D702
MA152WK-X
D701
MA152WK-X
Q653
DTC124EKA-X
Q652
DTC124EKA-X
CNOAC
AC
TO PA-1202A
NC
GND
NC
L
GND
R
A. MUTE
VARI R
GND
VARI L
CNOAD
AD
C+
C−
TO PA-1202A
CN010
CH42151-015PSF
010
TO PA-7002A
NC
12V
25V
25V
SDA
SCL
A. GND
A. GND
NC
CN009
CH42151-010PSF
009
TO PA-7002A
GND
GND
GND
SPGND
RSP+
GND
GND
GND
LSP−
LSP+
CNOAF
AF
TO PA-1202A
LSP−
LSP+
GND
RSP+
C+
Amp R
Amp L

MI-COM PWB PATTERN (PA-7001A [BX6], PA-7002A [BH6])

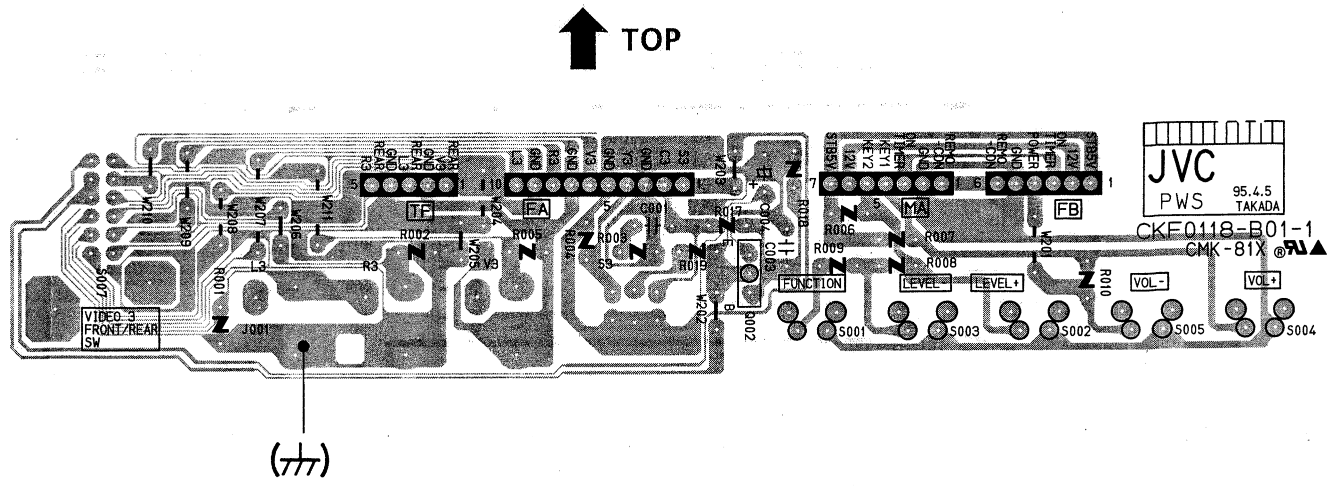
FRONT


AUDIO/TUNER2
CN010
CN00B
MTS
CMK-54XT
JVC
PWS
CKF0120-B01-1
TUNER
REG
CAPTION
SUB MICON
MAIN MICON
VNR
APACON
TAKE OFF
Y/C SEP
SYNC DET
HALF TONE
CN012
CN013
CN008
CN007
CN006
CN005
CN003
CN002
CN001
IF
SPL
GA
TU001
IC301
IC601
IC701
IC702
IC201
IC903
IC901
IC191
IC151
IC501
H901
H903
R901
R903
(⏚)
(⏚)

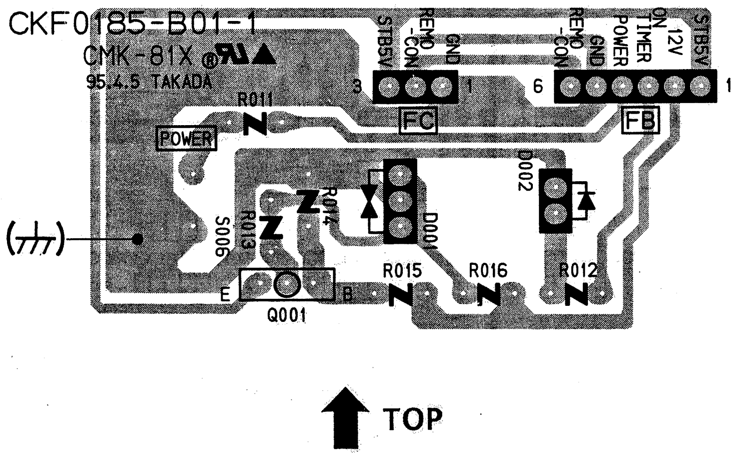
TUNER PWB PATTERN (PA-1101A)


TOP
F
E
D
C
B
A
3
2
1
0
MTS
TUNER/IF
TU001
JVC
PWS
95.3.31
TAKADA
CKF0114-B01
CMK-81X
CN010
CN009
IC191
IC901
IC902
K901
K902
DATA
LOCK
EN
CLO
CK
BPL
BTL
BM
BL
AGC
BH
BI
BV
AFT
VCO
T111
T115
T116
SIF
SF101
SF102
CF001
CF002
Q103
Q105
DET
OUT
LEVEL
TP-12B
(⏚)

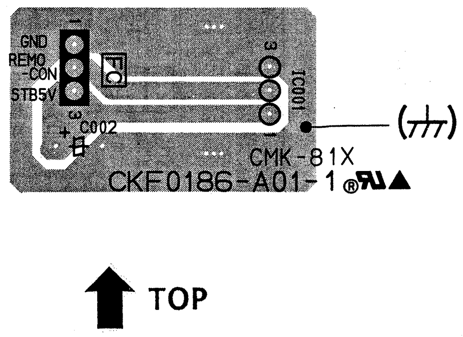
FRONT CONTROL PWB PATTERN (PA-4001A)


TOP
JVC
PWS
95.4.5
TAKADA
CKF0118-B01-1
CMK-81X
TF
FA
MA
FB
VIDEO 3 FRONT/REAR SW
J001
FUNCTION
LEVEL-
LEVEL+
VOL-
VOL+
S001
S002
S003
S004
S005
S007
(⏚)

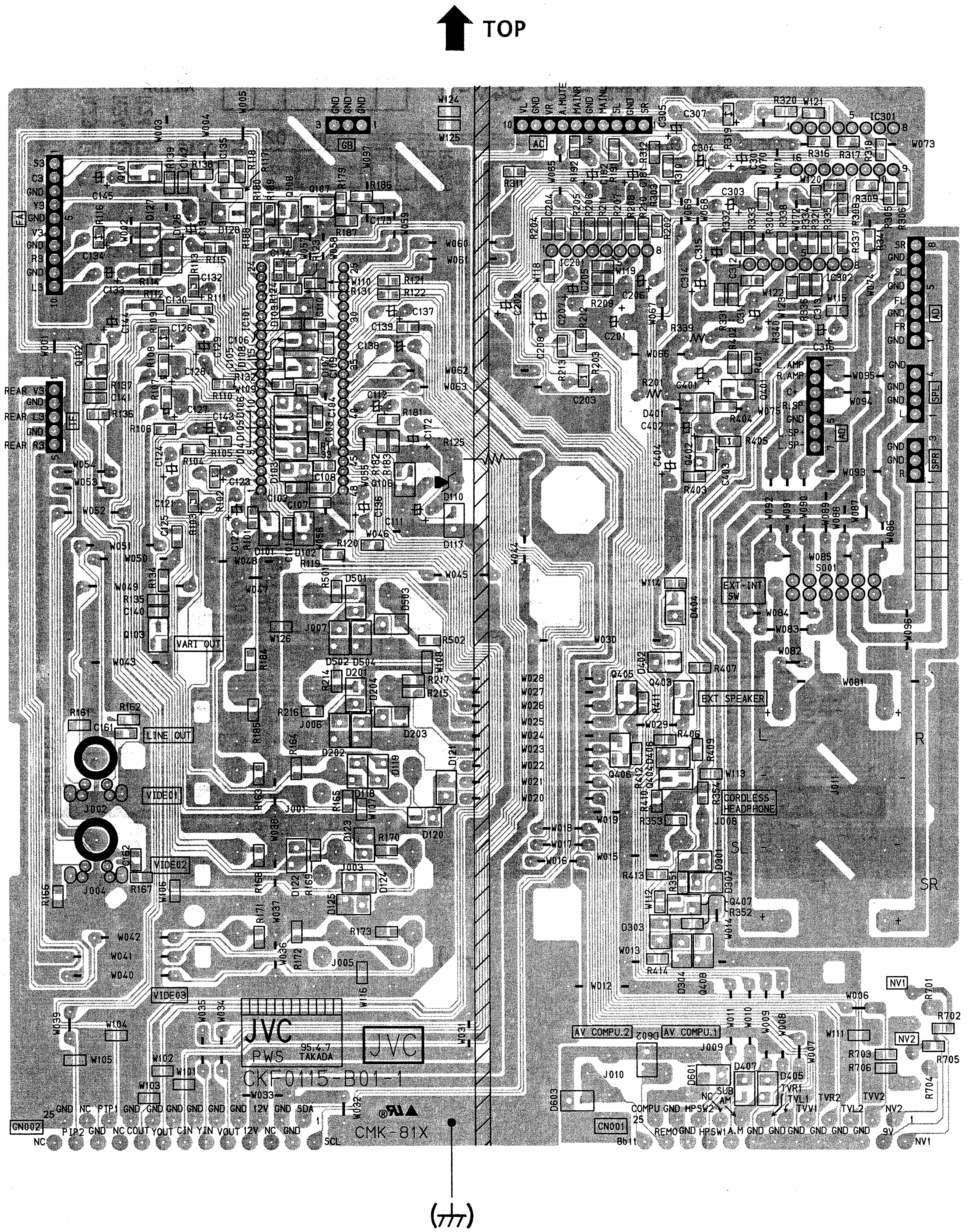
LED PWB PATTERN (PA-4003A)


CKF0185-B01-1
CMK-81X
95.4.5 TAKADA
STB5V
REMO-CON
GND
REMO-CON
GND
POWER
ON TIMER
12V
STB5V
3
1
6
1
FC
FB
R011
POWER
R013
R014
S006
D001
D002
R015
R016
R012
E
B
Q001
(⏚)
TOP

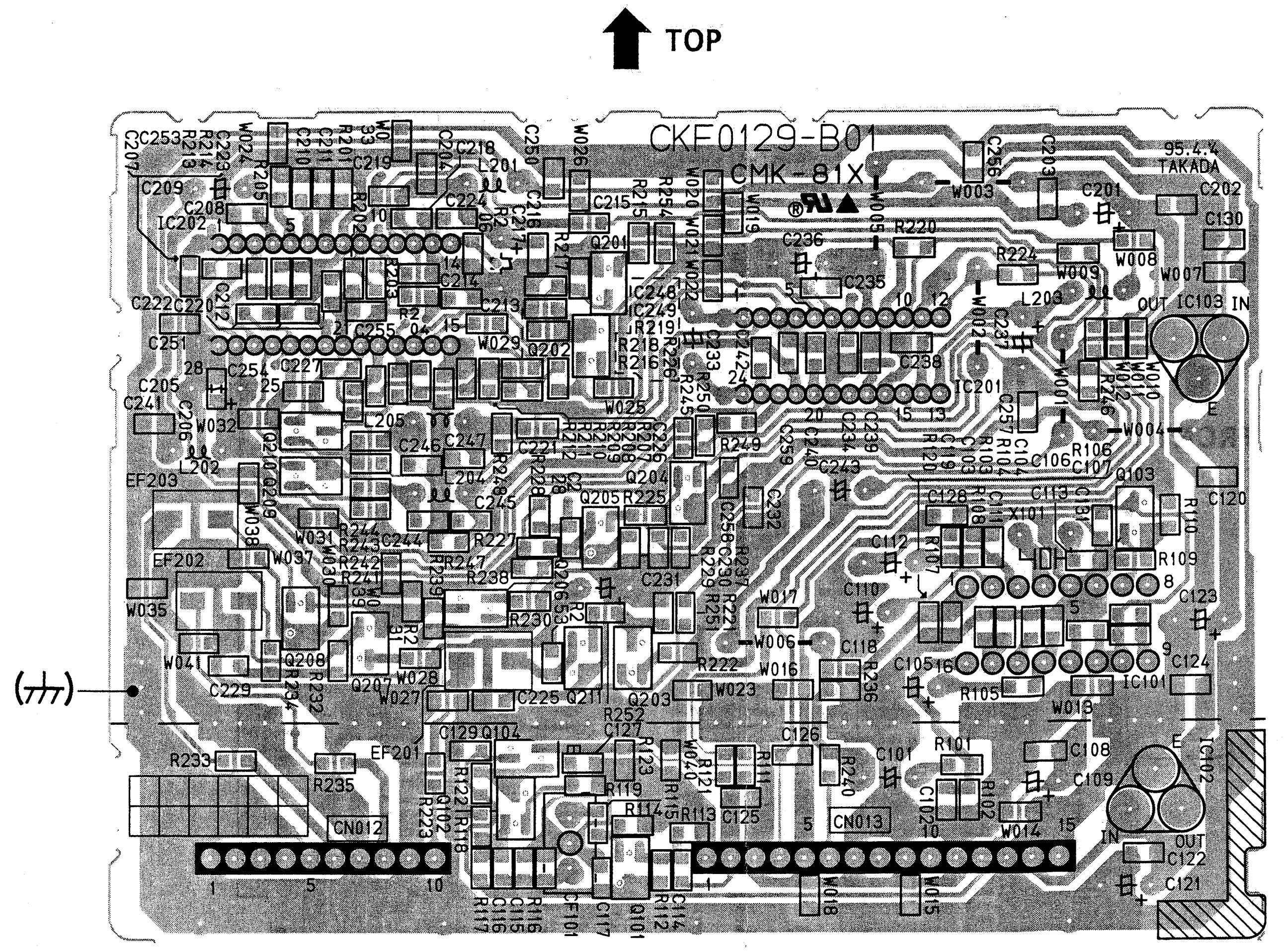
REMOCON PWB PATTERN (PA-4004A)


GND
REMO-CON
STB5V
1
3
FC
IC001
C002
CMK-81X
CKF0186-A01-1
(⏚)
TOP

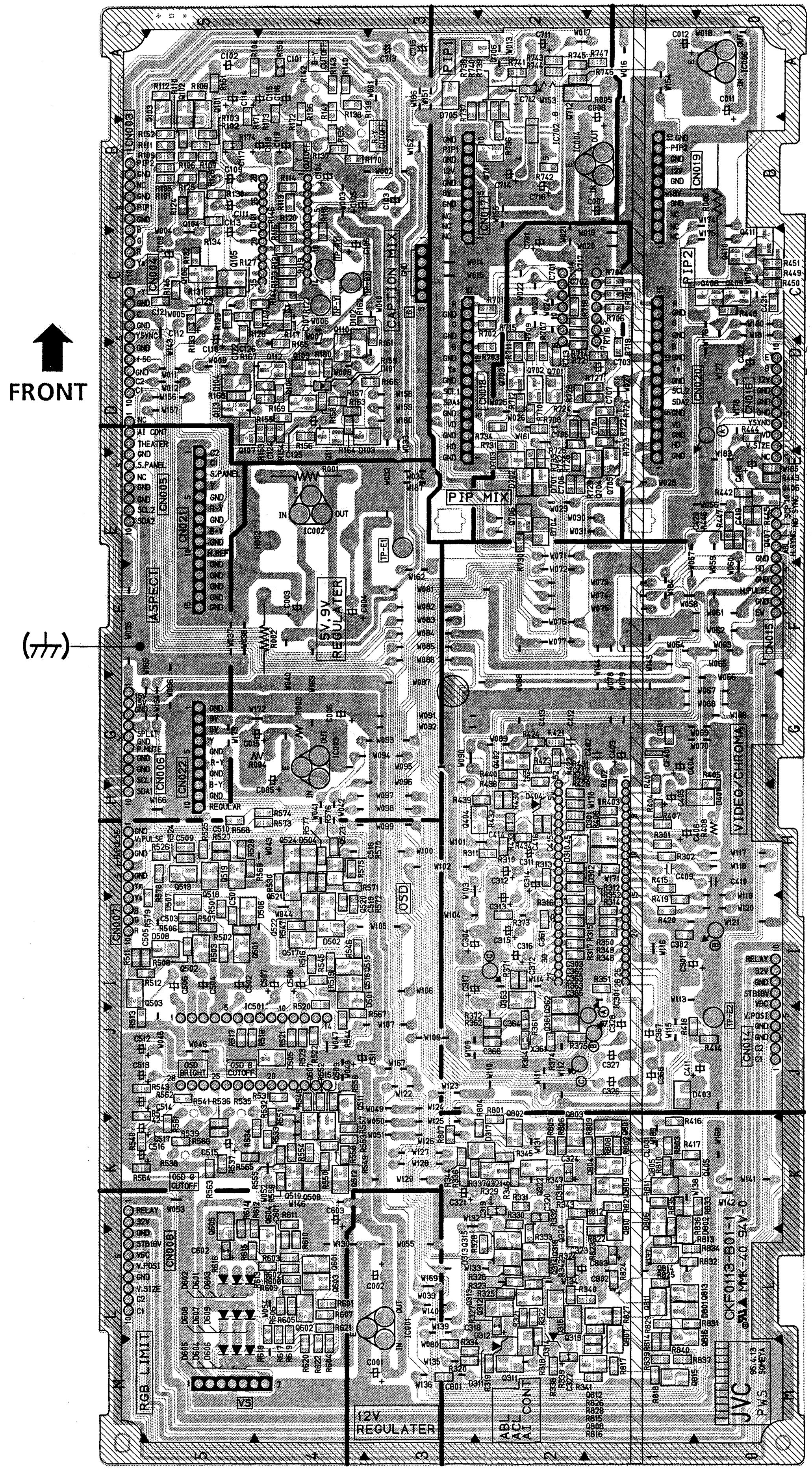
AV TERMINAL PWB PATTERN (PA-1201A [BX6], PA-1202A [BH6])


TOP
JVC
PWS
95.4.7
TAKADA
CKF0115-B01-1
CMK-81X
CN002
CN001
LINE OUT
VIDEO1
VIDEO2
VIDEO3
VARI OUT
EXT SPEAKER
CORDLESS HEADPHONE
EXT-INT SW
AV COMPU.2
AV COMPU.1
NV1
NV2
REAR V3
REAR L3
REAR R3
S3
C3
Y3
V3
R3
L3
L.AMP
R.AMP
L
R
SL
SR
(⏚)

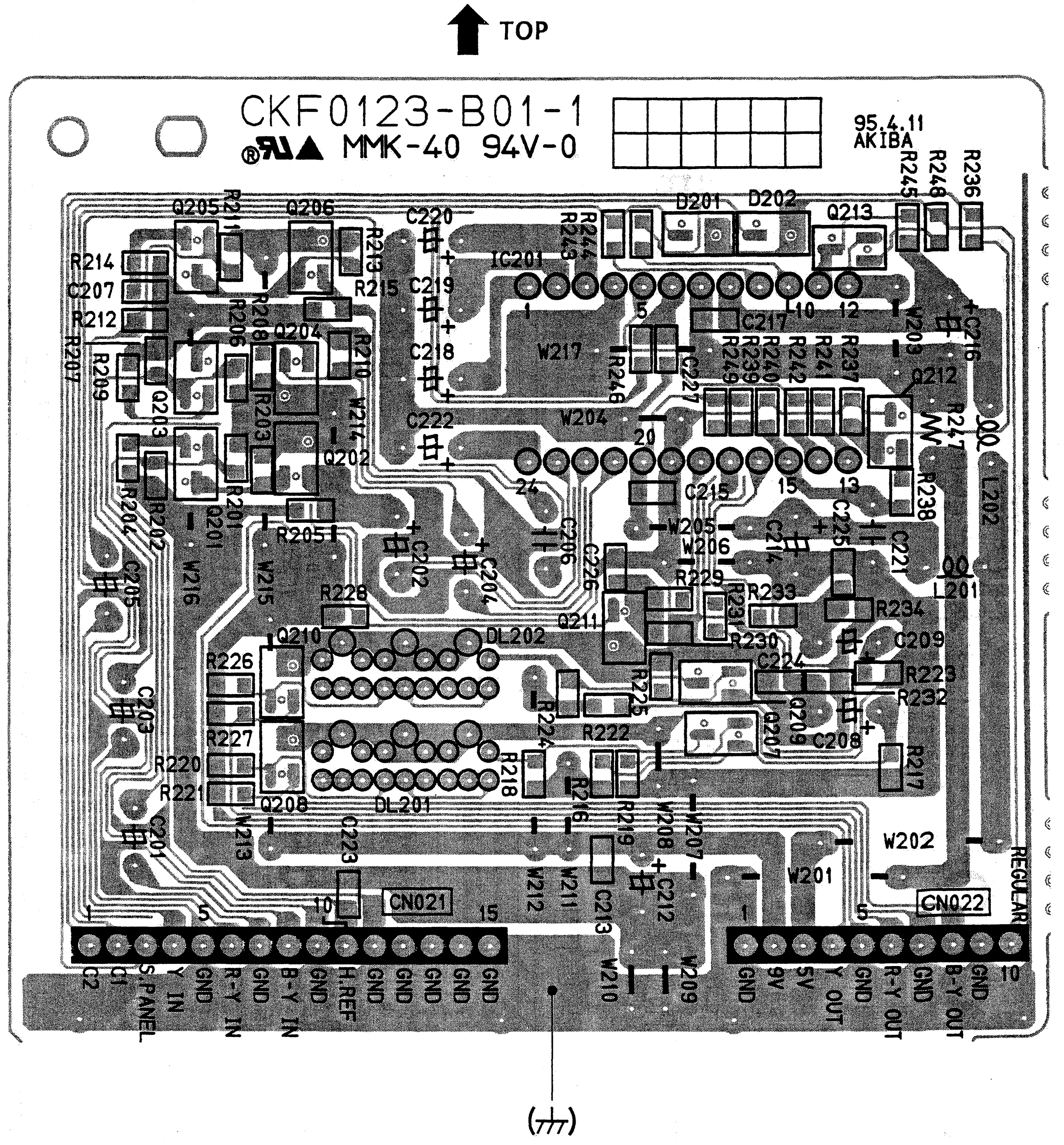
2D YC SEP. PWB PATTERN (PA-0Y002A)


TOP
CKF0129-B01
CMK-81X
95.4.4
TAKADA
IC101
IC102
IC103
IC201
IC202
CN012
CN013
IN
OUT
E
(⏚)

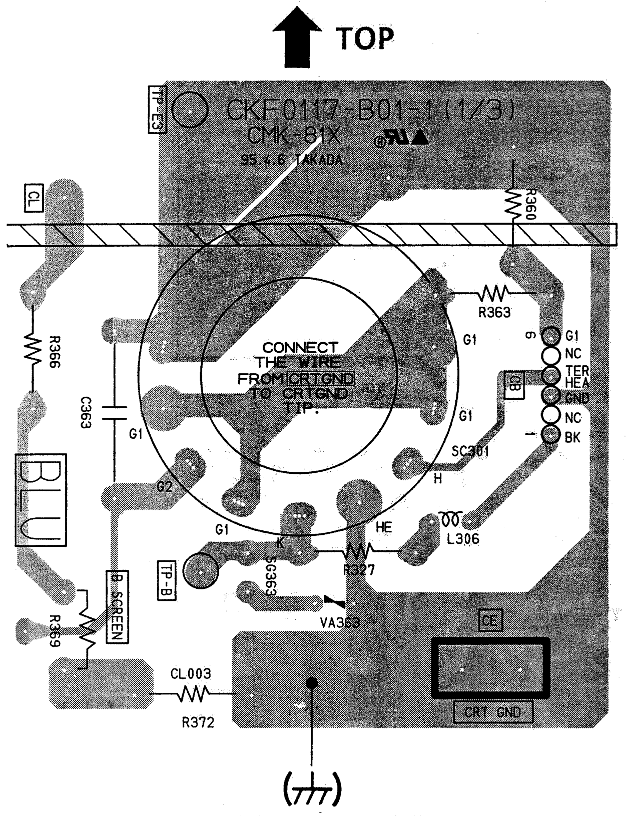
VIDEO / CHROMA PWB PATTERN (PA-1001A [BX6], PA-1002A [BH6])


FRONT
CN003
CN004
CN005
CN021
ASPECT
CN006
CN022
CN008
CN019
CN020
CN016
CN015
CN017
PIP1
PIP2
PIP MIX
CAPTION MIX
5V,9V REGULATER
12V REGULATER
OSD
VIDEO/CHROMA
RGB LIMIT
ABL AC AT CONT
CKF0113-B01-1
MMK-40 94V-0
JVC

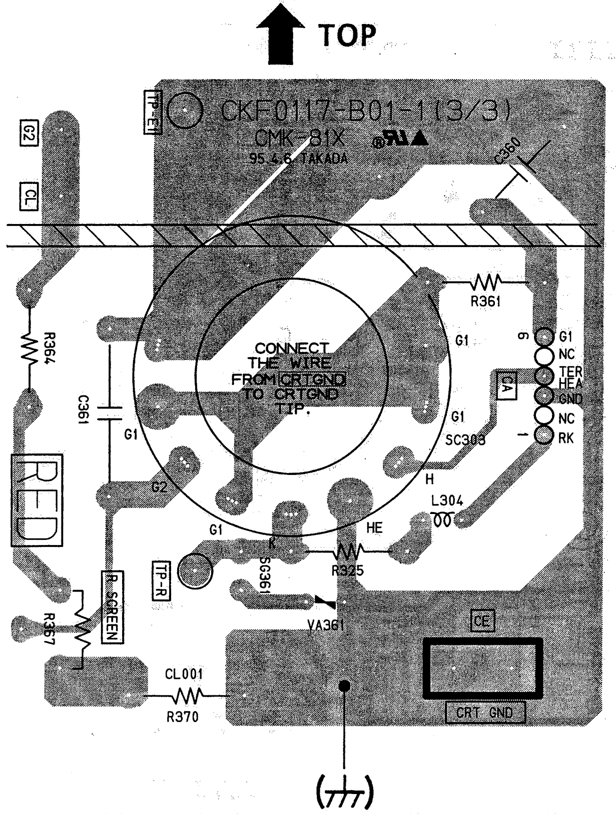
ASPECT PWB PATTERN (PA-0A001A)


TOP
CKF0123-B01-1
MMK-40 94V-0
95.4.11
AKIBA
IC201
DL201
DL202
CN021
CN022
REGULAR
C2
C1
S.PANEL
Y IN
GND
R-Y IN
GND
B-Y IN
GND
H.REF
GND
GND
GND
GND
GND
9V
5V
Y OUT
GND
R-Y OUT
GND
B-Y OUT
GND

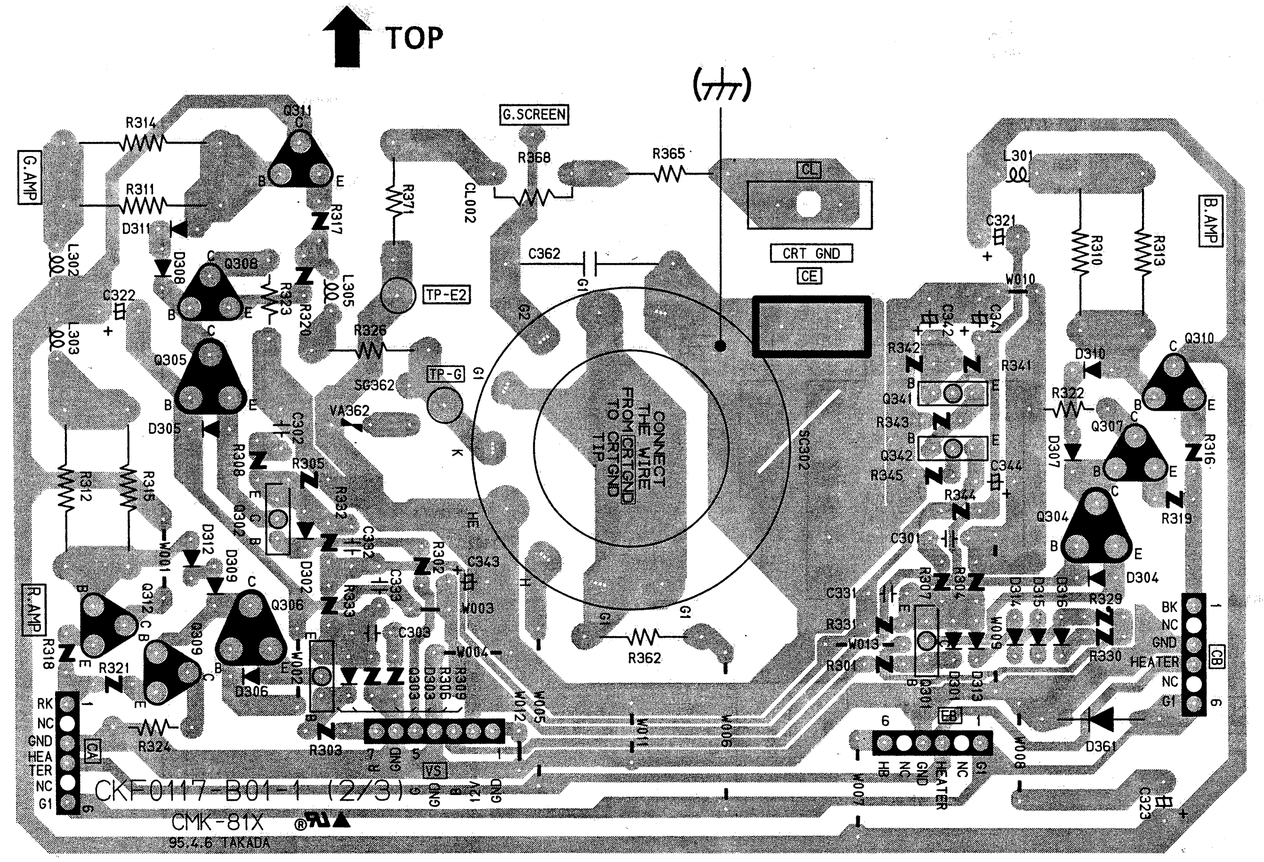
CRT SOCKET PWB PATTERN
(PA-3001A) [1/3]


TOP
CKF0117-B01-1(1/3)
CMK-81X
95.4.6 TAKADA
TP-E3
CL
R360
R363
R366
C363
G1
G2
CONNECT THE WIRE FROM CRTGND TO CRTGND TIP.
G1
NC
TER
HEA
GND
NC
BK
CB
SC301
H
HE
L306
R327
TP-B
SG363
VA363
B.SCREEN
R369
CL003
R372
CE
CRT GND
BLU

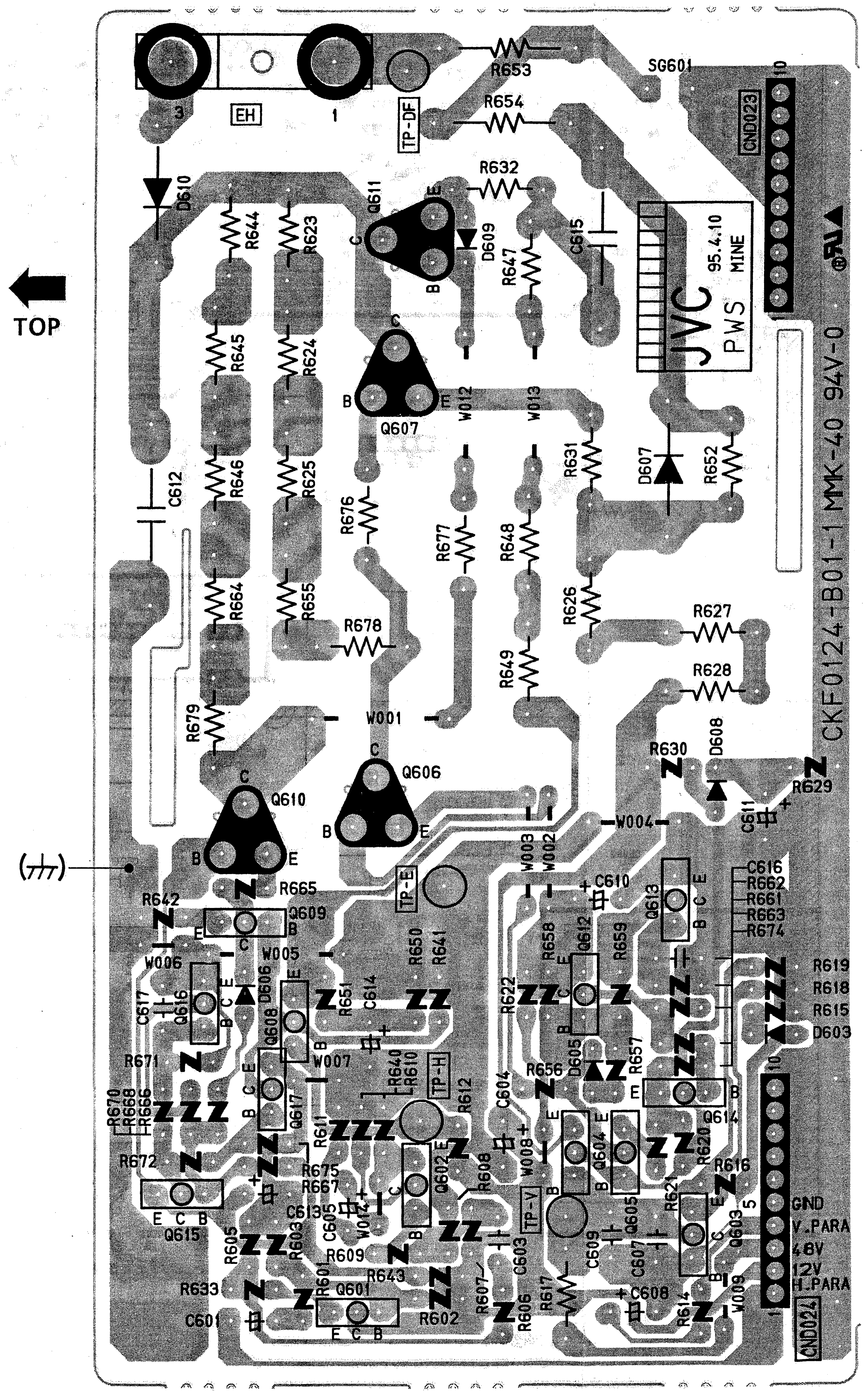
CRT SOCKET PWB PATTERN
(PA-3001A) [3/3]


TOP
CKF0117-B01-1(3/3)
CMK-81X
95.4.6 TAKADA
G2
CL
C360
R361
R364
C361
G1
G2
CONNECT THE WIRE FROM CRTGND TO CRTGND TIP.
G1
NC
TER
HEA
GND
NC
RK
CA
SC303
H
L304
HE
R325
TP-R
SG361
VA361
R.SCREEN
R367
CL001
R370
CE
CRT GND
RED

CRT SOCKET PWB PATTERN
(PA-3001A) [2/3]

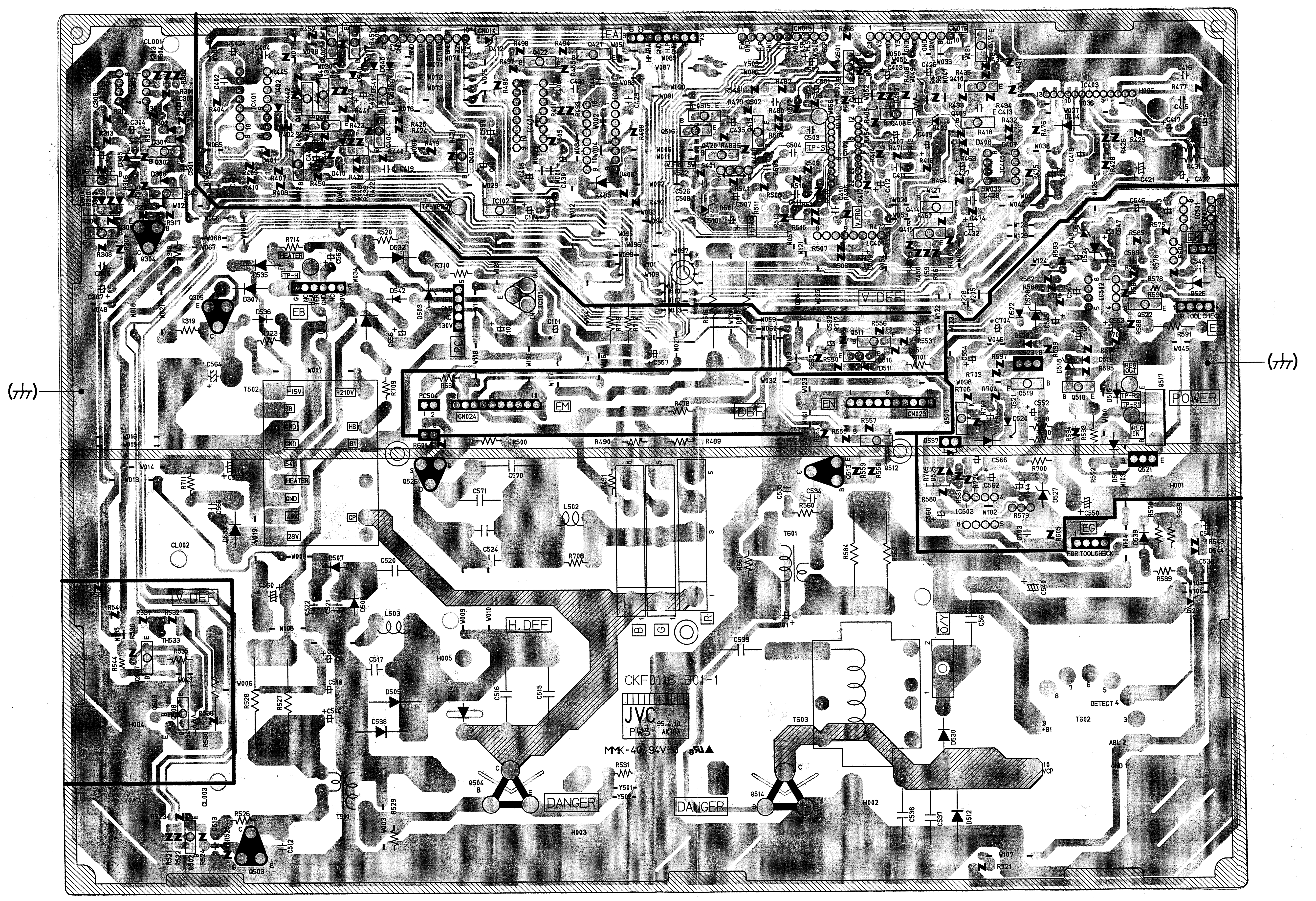

TOP
R314
Q311
G.AMP
R311
D311
R317
L302
C322
D308
Q308
R323
R320
L303
Q305
D305
R312
R315
R.AMP
R318
Q312
R321
Q309
D312
D309
Q306
D306
R324
RK
NC
GND
HEA
TER
NC
G1
CA
R371
CL002
L305
R326
TP-E2
SG362
VA362
TP-G
C302
R308
R305
D302
R332
R333
C303
R303
W001
W002
W003
W004
W005
W011
W012
VS
G.SCREEN
R368
R365
C362
CL
CRT GND
CE
SC302
CONNECT THE WIRE FROM CRTGND TO CRTGND TIP
R362
W006
W007
W008
W009
W010
W013
R342
R341
Q341
R343
Q342
R345
R344
C344
C301
C331
R331
R301
R307
D301
D310
R322
Q307
D307
L301
C321
R310
R313
B.AMP
Q310
R316
Q304
R319
D304
R329
R330
BK
NC
GND
HEATER
NC
G1
CB
EB
HEATER
D361
C323
CKF0117-B01-1 (2/3)
CMK-81X
95.4.6 TAKADA

DYNAMIC FOCUS PWB PATTERN
(PA-0D001A)

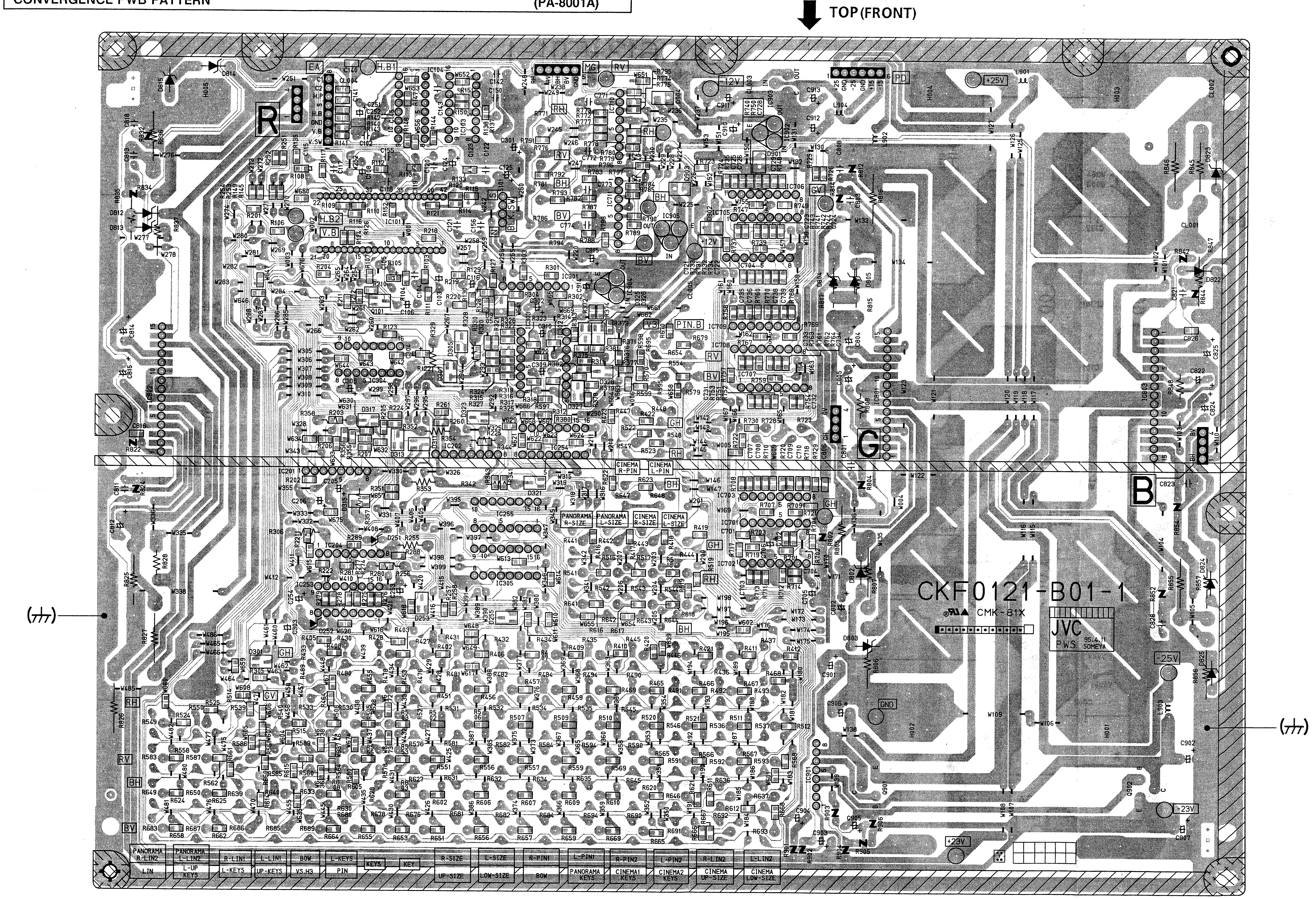

TOP
3
EH
1
TP-DF
R653
R654
SG601
CN0023
10
D610
R644
R623
Q611
R632
D609
R647
C615
JVC
PWS
95.4.10
MINE
R645
R624
Q607
W012
W013
C612
R646
R625
R676
R677
R648
R631
D607
R652
R664
R655
R678
R626
R627
R628
R679
R649
W001
Q610
Q606
R630
D608
R629
C611
R665
R642
Q609
W004
W003
W002
TP-E
C610
Q613
C616
R662
R661
R663
R674
W006
W005
Q616
D606
Q608
R651
C614
R650
R641
R622
R658
Q612
R659
R619
R618
R615
D603
C617
R671
W007
R640
R610
TP-H
R656
D605
R657
Q614
R670
R668
R666
Q617
R611
R612
C604
W008
Q604
R620
R616
R672
R675
R667
C613
C605
Q602
R608
TP-V
Q605
R621
Q603
GND
V.PARA
48V
12V
H.PARA
Q615
R605
R603
R601
R609
W012
R643
C603
C609
C607
R633
Q601
R607
R617
C608
W009
R614
C601
R602
R606
CN0024
CKF0124-B01-1 MMK-40 94V-0

DEF. PWB PATTERN (PA-2001A)

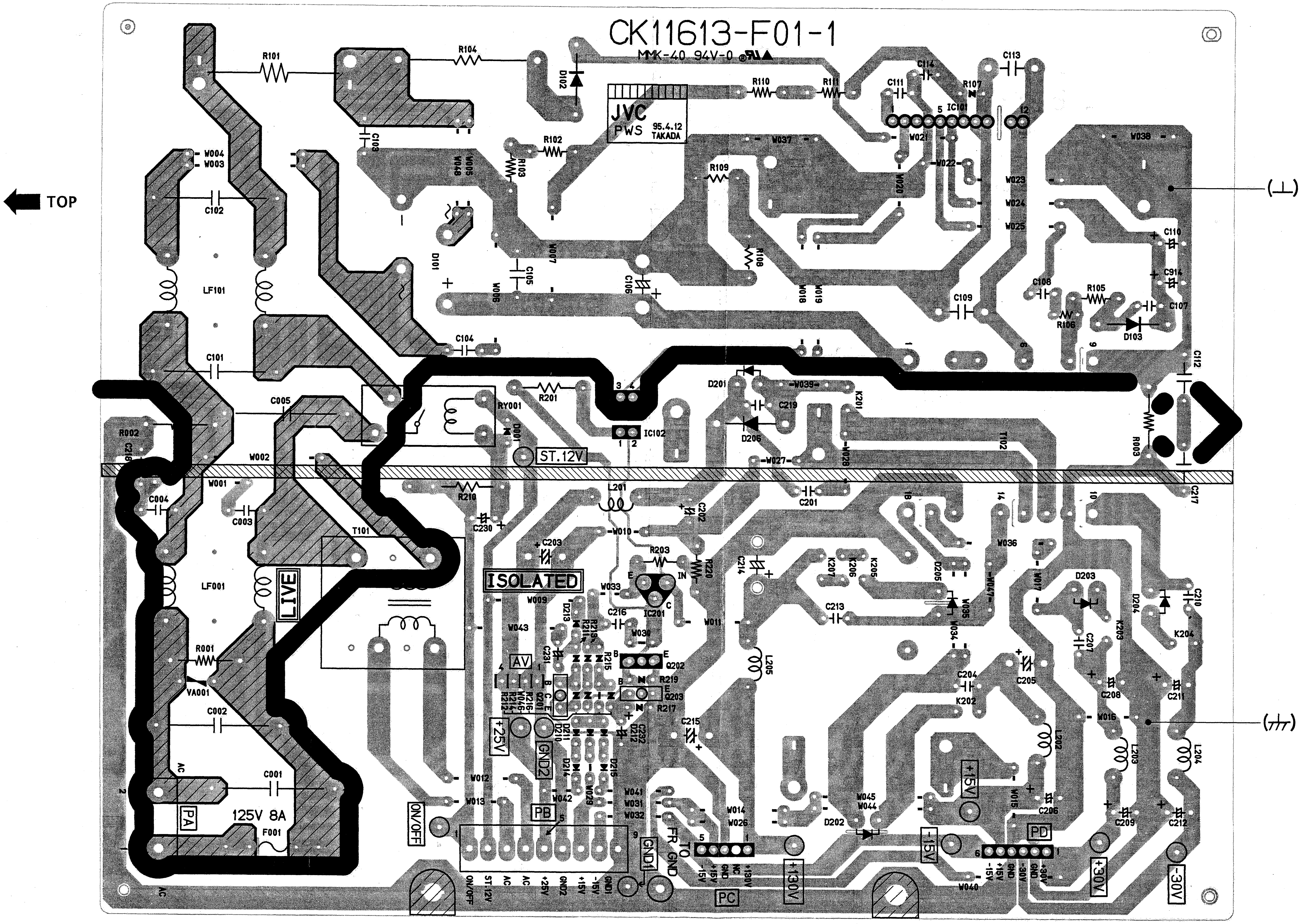
FRONT


V.DEF
H.DEF
V.DEF
DBF
EA
EB
EM
EN
EK
EE
EG
PC
POWER
FOR TOOL CHECK
FOR TOOL CHECK
TP-VFRQ
TP-H
TP-S
TP-R1
TP-R2
HEATER
DANGER
DANGER
CKF0116-B01-1
JVC
PWS 95.4.10 AK1BA
MMK-40 94V-0
T502
T501
T601
T602
T603
Q504
Q514
Q503
Q526
Q513
Q304
Q305
CN014
CN015
CN016
CN023
CN024
IC101
IC102
IC403
B
G
R
DETECT 4
ABL 2
GND 1
10 VCP
9 B1

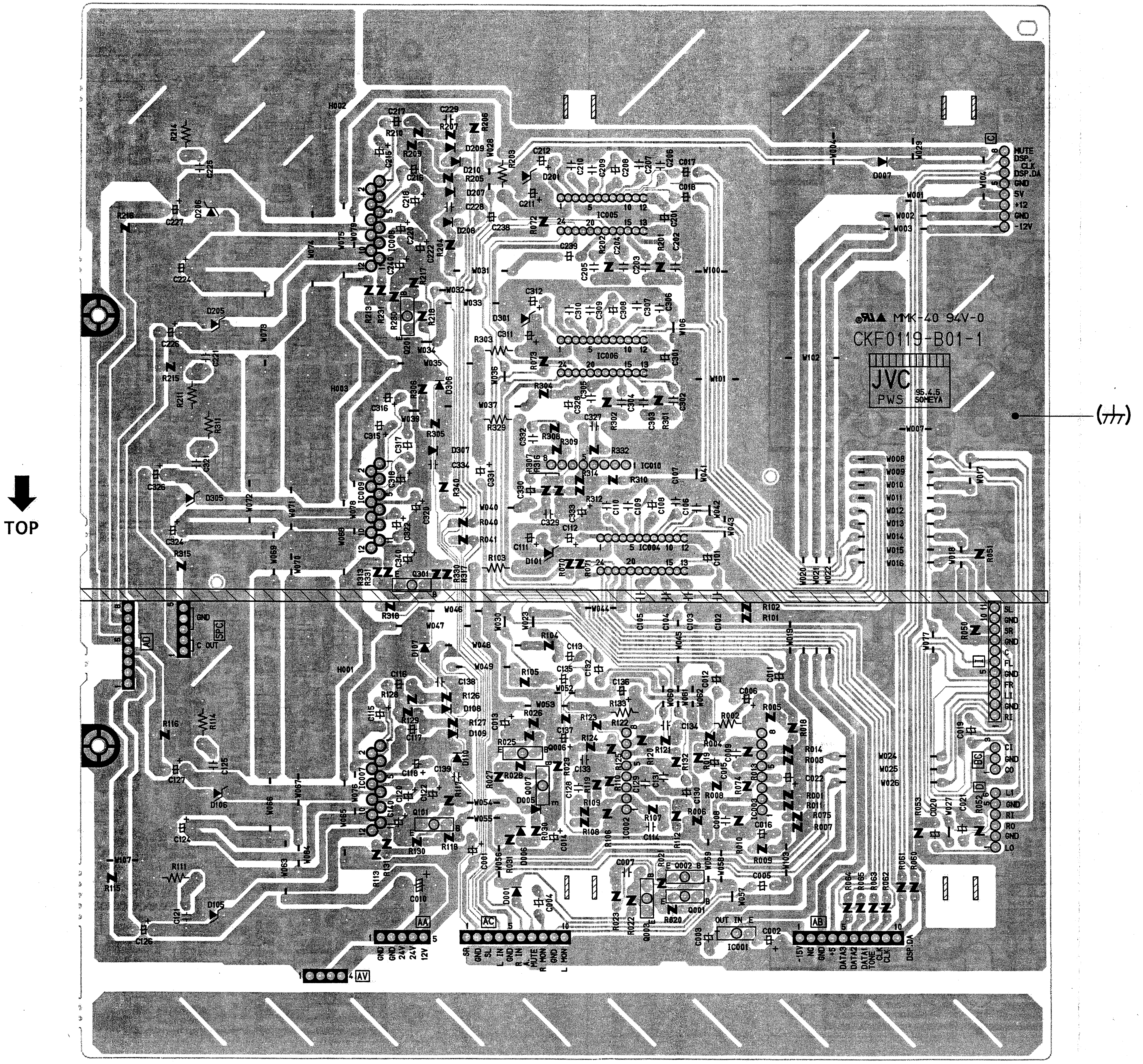
CONVERGENCE PWB PATTERN (PA-8001A)


TOP (FRONT)
R
G
B
CKF0121-B01-1
CMK-81X
JVC
PWS 95.4.11 SOMEYA
+25V
-25V
+23V
-23V
12V
GND
PANORAMA R-LIN2
PANORAMA L-LIN2
R-LIN1
L-LIN1
BOW
L-KEYS
KEYS
KEY
R-SIZE
L-SIZE
R-PIN1
L-PIN1
R-PIN2
L-PIN2
R-LIN2
L-LIN2
LIN
L-UP KEYS
L-KEYS
UP-KEYS
VS.H3
PIN
UP-SIZE
LOW-SIZE
BOW
PANORAMA KEYS
CINEMA1 KEYS
CINEMA2 KEYS
CINEMA UP-SIZE
CINEMA LOW-SIZE

POWER PWB PATTERN (PA-9001A [BX6], PA-9002A [BH6])

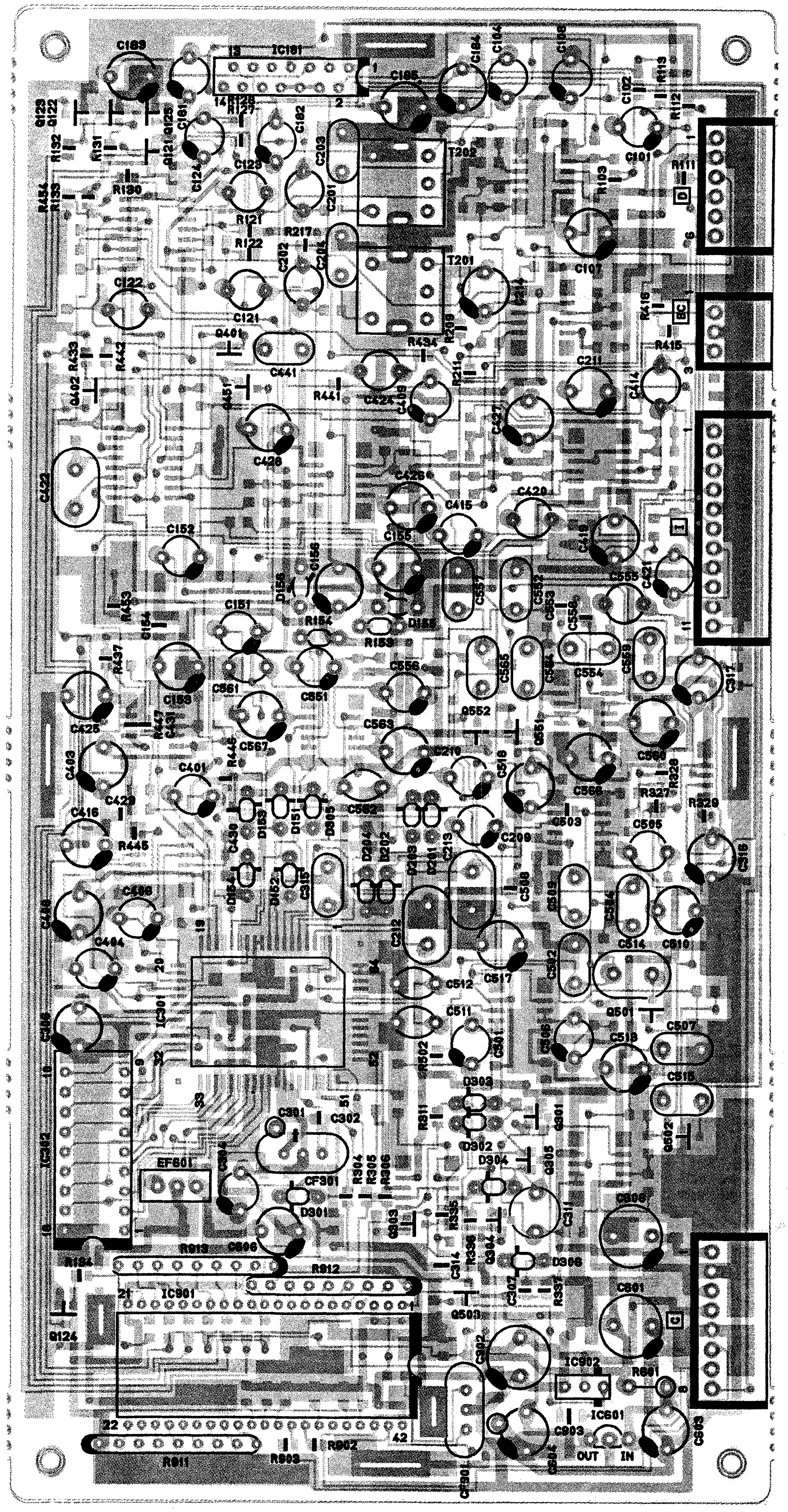

CK11613-F01-1
MMK-40 94V-0
JVC
PWS
95.4.12
TAKADA
TOP
(⊥)
(⫽)
ISOLATED
LIVE
ST.12V
125V 8A
PA
PB
PC
PD
AV
+25V
GND2
GND1
ON/OFF
+15V
-15V
+130V
+30V
-30V
TO FR GND
R101
R104
D102
R110
R111
C114
C113
C111
R107
IC101
R102
R103
C103
W004
W003
C102
LF101
C101
C104
C005
R002
W002
W001
C004
C003
T101
LF001
R001
VA001
C002
C001
F001
AC
RY001
D001
R201
IC102
D201
C219
D206
K201
T102
R003
C217
C12
L201
C202
C201
R203
R220
IC201
Q202
Q203
C214
C213
D205
D203
D204
C210
K204
K203
C207
C204
C205
K202
C208
C211
L202
L203
L204
C206
C209
C212
D202
C215
C230
C203
C216
C231
R219
R217
R215
D213
D214
D215
D216
D210
D211
C109
C108
R105
R106
D103
C107
C110
C914
C105
C106
D101
R108
R109
W037
W038
W036
W040
W041
W031
W032
W012
W013
W014
W026
W042
W029
W043
W009
W033
W030
W010
W011
W034
W035
W016
W015
W017
W039
W027
W028
W045
W044
W016
W018
W019
W020
W021
W022
W023
W024
W025
W005
W048
W006
W007
L205

AUDIO PWB PATTERN (PA-6001A [BX6])

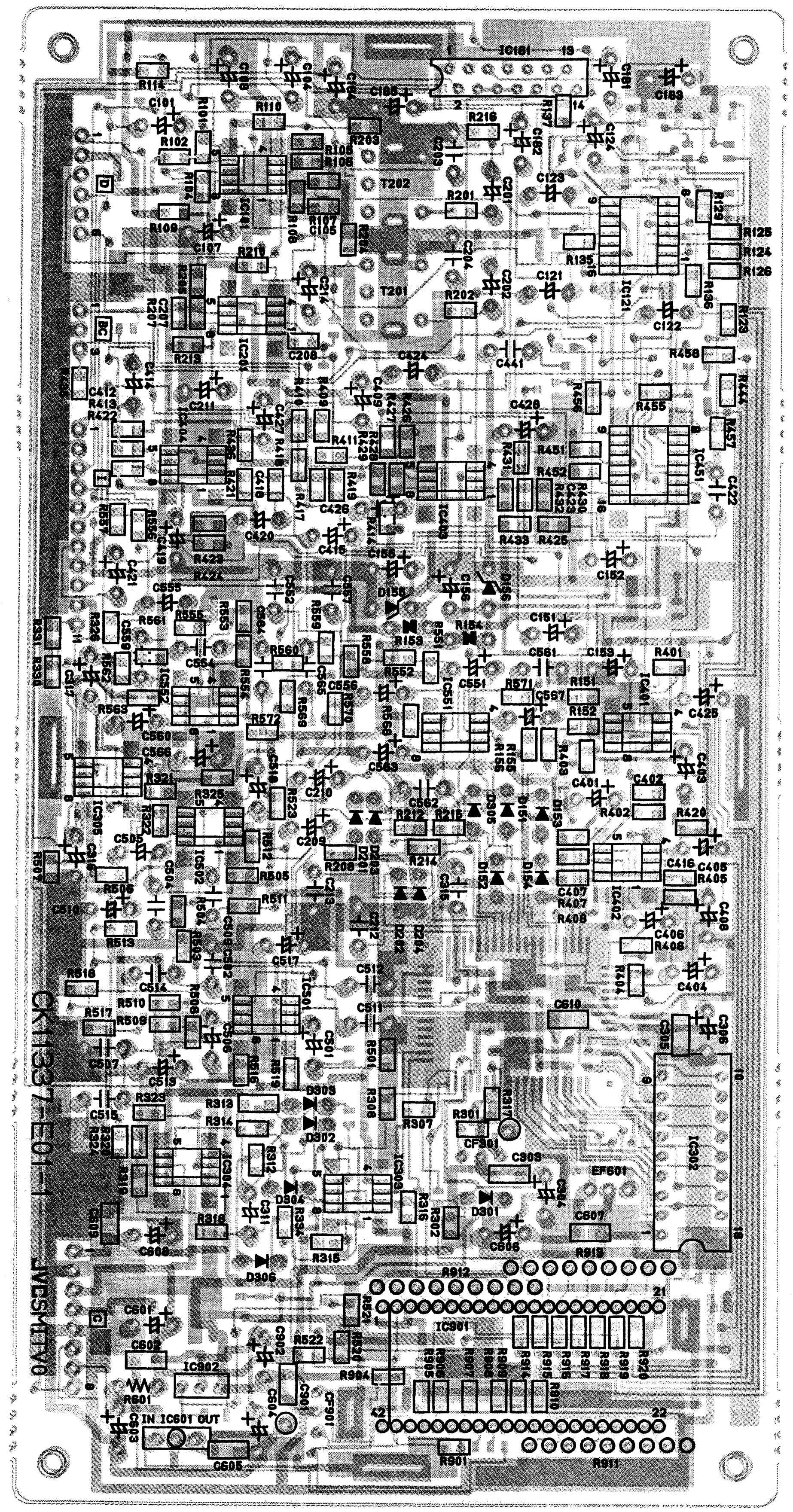

TOP
MMK-40 94V-0
CKF0119-B01-1
JVC
PWS
95.4.5
SOMEYA
IC005
IC006
IC004
IC008
IC009
IC007
IC003
IC002
IC010
IC001
OUT IN E
Q301
Q101
Q001
Q002
MUTE
DSP.CL
DSP.DA
GND
5V
+12
GND
-12V
SL
GND
SR
GND
C
FL
GND
FR
LT
GND
RI
CI
GND
CO
LI
GND
RI
RO
GND
LO
GND
C OUT
SFC
AD
AA
GND
GND
24V
24V
12V
AC
SR
GND
SL
L IN
GND
R IN
GND
MUTE
R MON
GND
GND
L MON
AB
-15V
NC
GND
+5
DATA2
DATA1
TONE
CLK
CLK
DSP.DA
AV
BC
AE
AF
AG
H001
H002
H003

SURROUND PWB PATTERN (PA-6201A)

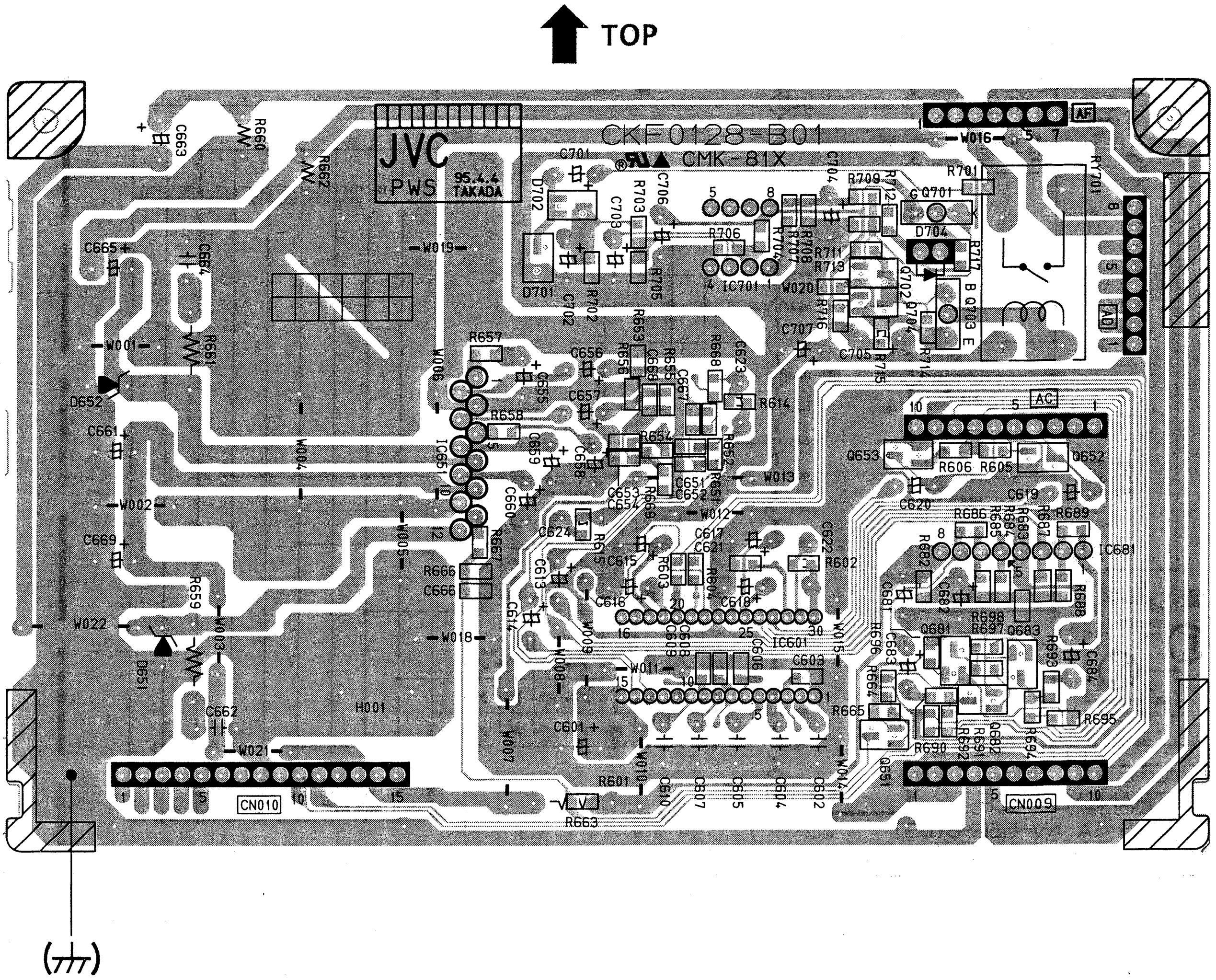
TOP



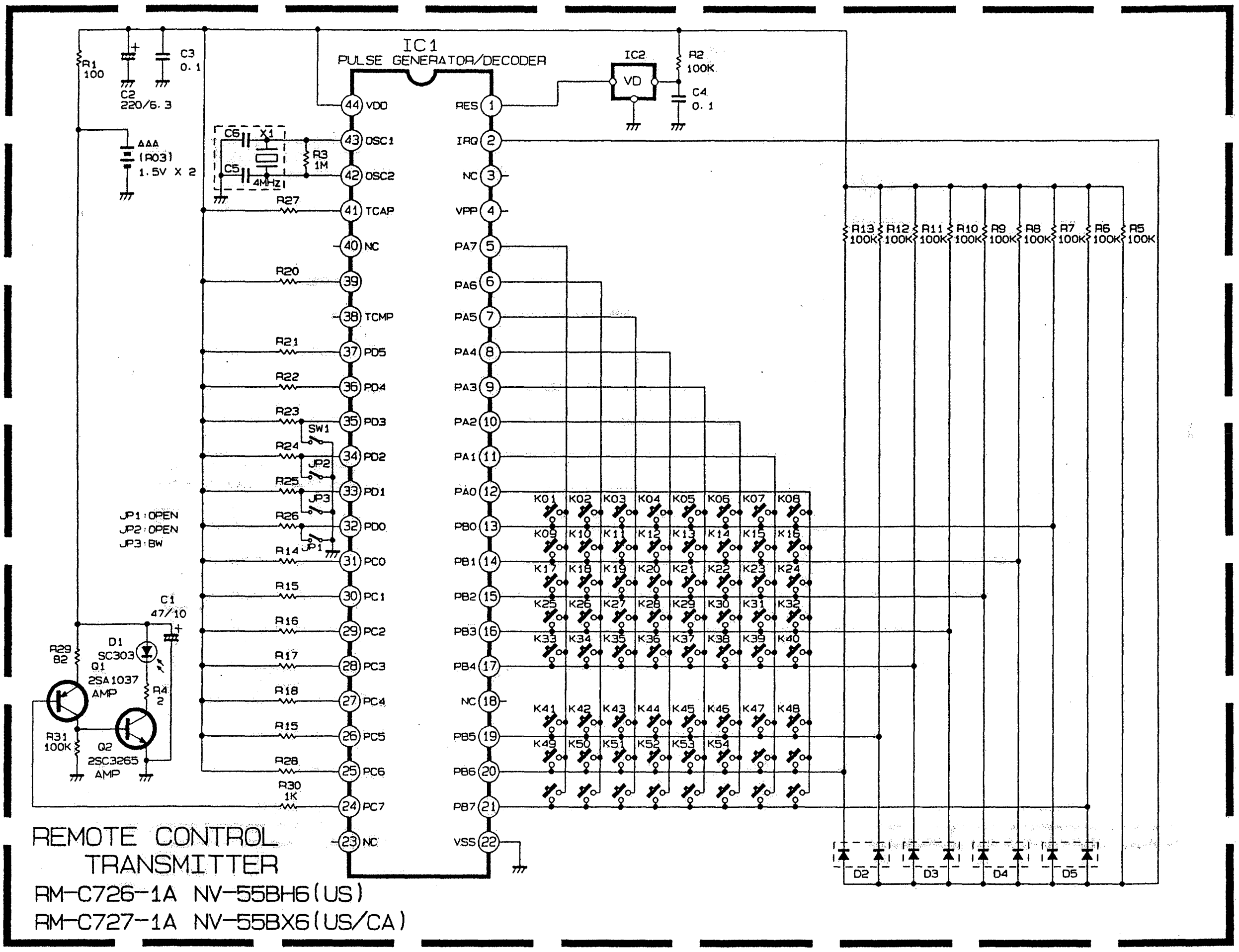
TOP



AUDIO PWB PATTERN (PA-6002A (BH6))


TOP
CKF0128-B01
CMK-81X
JVC
PWS
95.4.4
TAKADA
C663
R660
R662
C665
C664
W001
R661
D652
C661
W002
C669
R659
W022
W003
D651
C662
W021
H001
CN010
1
5
10
15
W019
W006
R657
IC651
R658
W004
W005
R666
C666
W018
C655
C659
C660
R667
C701
D702
C706
R703
C703
D701
C702
R702
R705
R706
IC701
R709
R712
Q701
R701
C704
R704
R707
R708
R711
R713
W020
R716
D704
R717
Q702
Q703
C707
C705
R715
R714
RY701
W016
AF
AD
AC
8
1
C656
R653
R656
C658
R655
C657
R668
C623
R614
R654
C653
C654
R669
C651
C652
R651
R652
W013
W012
C624
R615
C613
C614
C615
R603
C616
C617
C621
R604
C618
C622
R602
W009
W008
W011
IC601
C608
C609
C606
C603
W015
C601
W010
W007
R601
R663
C610
C607
C605
C604
C602
W014
Q653
R606
R605
Q652
C620
C619
R686
R685
R684
R683
R687
R689
IC681
R682
C681
C682
R688
R698
R697
Q681
Q683
R696
C683
R693
C684
R664
R665
Q651
R690
R691
R692
Q682
R694
R695
CN009
5
10

REMOTE CONTROL UNIT CIRCUIT DIAGRAM (RM-C726-1A [BH6], RM-C727-1A [BX6])


IC1
PULSE GENERATOR/DECODER
44 VDD
43 OSC1
42 OSC2
41 TCAP
40 NC
39
38 TCMP
37 PD5
36 PD4
35 PD3
34 PD2
33 PD1
32 PD0
31 PC0
30 PC1
29 PC2
28 PC3
27 PC4
26 PC5
25 PC6
24 PC7
23 NC
RES 1
IRQ 2
NC 3
VPP 4
PA7 5
PA6 6
PA5 7
PA4 8
PA3 9
PA2 10
PA1 11
PA0 12
PB0 13
PB1 14
PB2 15
PB3 16
PB4 17
NC 18
PB5 19
PB6 20
PB7 21
VSS 22
IC2
VD
R2
100K
C4
0. 1
R1
100
C2
220/6. 3
C3
0. 1
AAA
(R03)
1.5V X 2
C6
X1
C5
4MHz
R3
1M
R27
R20
R21
R22
R23
SW1
R24
JP2
R25
JP3
R26
JP1
R14
R15
R16
R17
R18
R15
R28
R30
1K
JP1 : OPEN
JP2 : OPEN
JP3 : BW
C1
47/10
D1
SC303
R29
82
Q1
2SA1037
AMP
R4
2
R31
100K
Q2
2SC3265
AMP
K01 K02 K03 K04 K05 K06 K07 K08
K09 K10 K11 K12 K13 K14 K15 K16
K17 K18 K19 K20 K21 K22 K23 K24
K25 K26 K27 K28 K29 K30 K31 K32
K33 K34 K35 K36 K37 K38 K39 K40
K41 K42 K43 K44 K45 K46 K47 K48
K49 K50 K51 K52 K53 K54
R13 100K
R12 100K
R11 100K
R10 100K
R9 100K
R8 100K
R7 100K
R6 100K
R5 100K
D2
D3
D4
D5
REMOTE CONTROL
TRANSMITTER
RM-C726-1A NV-55BH6(US)
RM-C727-1A NV-55BX6(US/CA)

● KEY FUNCTIONS

KEY NO.	FUNCTION (RM-C726)	FUNCTION (RM-C727)	KEY NO.	FUNCTION (RM-C726)	FUNCTION (RM-C727)
1	ASPECT	ASPECT	27	0	0
2	----	SOUND MODE	28	RETURN	RETURN
3	DISPLAY	SPLIT	29	HYPER SCAN −	HYPER SCAN −
4	POWER	POWER	30	CH −	CH −
5	----	PIP ON/OFF	31	CH +	CH +
6	PIP ON/OFF	PIP POSITION	32	HYPER SCAN +	HYPER SCAN +
7	PIP POSISION	PIP SWAP	33	MUTE	MUTE
8	PIP SWAP	PIP/POP	34	VOL −	VOL −
9	CATEGORY PREVIEW	PIP SOURCE	35	VOL +	VOL +
10	PIP SOURCE	PIP FREEZE	36	REW ◄◄	REW ◄◄
11	PIP FREEZE	PIP CHANNEL −	37	PLAY ►	PLAY ►
12	PIP/POP	PIP CHANNEL +	38	FF ►►	FF ►►
13	CLOSED CAPTION	CLOSED CAPTION	39	REC ●	REC ●
14	1	1	40	STOP ■	STOP ■
15	2	2	41	PAUSE ▮▮	PAUSE ▮▮
16	3	3	42	VCR POWER	VCR POWER
17	THEATER/AVSTATUS	THEATER/AVSTATUS	43	VCR CH −	VCR CH −
18	4	4	44	VCR CH +	VCR CH +
19	5	5	45	HELP	HELP
20	6	6	46	----	DISPLAY
21	SLEEP TIMER	SLEEP TIMER	47	----	CATEGORY PREVIEW
22	7	7	48	EXIT	EXIT
23	8	8	49	MENU △	MENU △
24	9	9	50	MENU ◁	MENU ◁
25	TV/VIDEO	TV/VIDEO	51	MENU ▽	MENU ▽
26	100+	100+	52	MENU ▷	MENU ▷

VP
A.N

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied .
- As a rule, the resistors and capacitors which are indicated as shown in "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board .
  When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" .

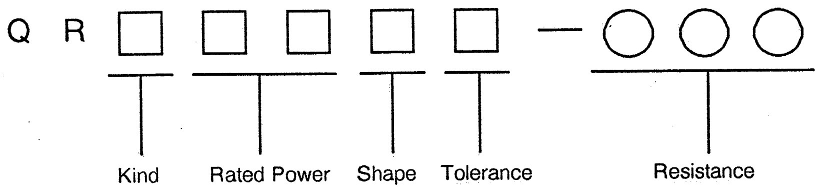
ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% - 10%	+50% - 10%	+80% - 20%	+100% - 0%

HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR


Q R □ □ □ □ □ — ○ ○ ○
Kind
Rated Power
Shape
Tolerance
Resistance

Symbol	Part Name
C	COMP.R
D	C R
S	CH MG R

Symbol	Rated Power
0 1	1 w
1 2	1/2 w
1 4	1/4 w
1 6	1/6 w
1 8	1/8 w

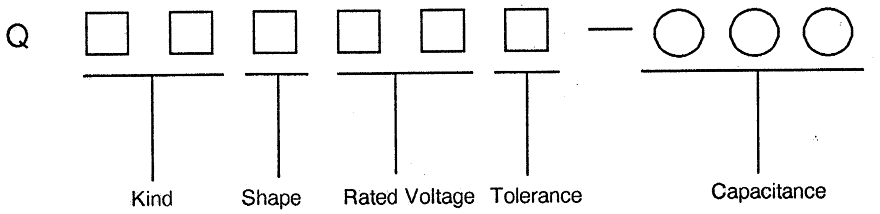
Symbol	Shape
1	Straight lead
8	Chip

Indicate with first two-figure expressed by Ω and following 0.
please note that,in case of resistance less than 10 Ω, a letter "R"will be effective as point.

EX.

2.2 Ω = 2R2
470 Ω = 47×10¹ → 471
150kΩ = 15×10⁴ → 154

■ CAPACITOR


Q □ □ □ □ □ □ — ○ ○ ○
Kind
Shape
Rated Voltage
Tolerance
Capacitance

Symbol	Part Name
CS	C CAP.
CS	CH C CAP.
ET	E CAP.
FM	M CAP.

6Figure \ 5Figure	0	1	2
A		10V	100V
C		16V	160V
D			200V
E		25V	250V
H		50V	500V
J	6.3V	63V	
V		35V	

Indicate with first two-figure expressed by pF and following 0.
Please note that,in case of capacitance less than 10 pF a letter "R" will be effective as point.

EX

5pF = 5R0
1000pF = 10×10² → 102
47μF = 47×10⁶ → 476

Symbol	Shape
1	Straight lead
1	Leads in the same direction
8	Chip
A	Leads in the same direction (compact part)

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USING P.W. BOARD & REMOTE CONTROL UNIT

Model P.W.B ASS'Y	NV-55BX6 (US &CA)	NV-55BH6 (US)
VIDEO/CHROMA P.W.B	PA-1001A-H1	PA-1002A-H1
ASPECT P.W.B	PA-0A001A-H1	←
DINAMIC FOCUS P.W.B	PA-0D001A-H1	←
TUNER P.W.B	PA-1101A-H1	
AV TERMINAL P.W.B	PA-1201A-H1	PA-1202A-H1
CRT SOCKET P.W.B	PA-3001A-H1	←
FRONT CONTROL P.W.B.	PA-4001A-H1	←
AUDIO P.W.B	PA-6001A-H1	PA-6002A-H1
SURROUND P.W.B	PA-6201A-H1	
MI-COM P.W.B	PA-7001A-H1	PA-7002A-H1
CONVERGENCE P.W.B	PA-8001A-H1	←
POWER P.W.B	PA-9001A-H1	PA-9002A-H1
3D Y/C SEP. MODULE / 2D Y/C SEP. P.W.B	PA-0Y001A-H1	PA-0Y002A-H1
PIP1 MODULE	PA-0P002A-H1	PA-0P001A-H1
PIP2 MODULE	PA-0P003A-H1	
LED P.W.B	PA-4003A-H1	←
REMO.CON P.W.B	PA-4004A-H1	←
DEF. P.W.B	PA-2001A-H1	←
REMOTE CONTROL UNIT	RM-C727-1A	RM-C726-1A

NV-55BX6(US&CA)

M1 EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	FF166-95T	SPEAKER	×2	
	2	CHGS0015-AD-G	SP WIRE ASSY		
	3	CHGS0015-AE-G	SP WIRE ASSY		
	4	SDSA4015Z	BIND HEAD SCREW	×8	*
	5	FF120-J3T	SPEAKER		
	6	CHGS0015-0B-G	SP WIRE ASSY		
	8	SDSA4015Z	BIND HEAD SCREW	×4	
	10	GBSA4018M	TAP SCREW	×2	*
	11	GBSA4018M	TAP SCREW	×3	*
⚠	12	CE42542-001	FOCUS PACK ASSY		
	13	SDSA3516M	TAP SCREW	×2	*
⚠	15	------------	CONVER PWB ASSY	PA-8001A-H1	
	16	------------	CONVER FRAME	×3,CM35709-001-A	*
	17	SBSB4012Z	TAPPING SCREW	×6	*
	18	CN30252-C01-A	FRONT BOARD		*
	19	GBSA4018M	TAP SCREW	×3	*
	21	CM47752-001	BRAND MARK		
	22	NNS3000Z	NUT		*
	25	CM12389-A01-VA	CONTROL PANEL		*
	26	CM35674-001	RM WINDOW		
	27	CM35666-A01-H	LED LENS		*
	28	CM35667-001-A	PW KNOB		*
	29	CM46014-A01	KNOB		
	30	CM47717-001-A	KNOB SPRING		*
⚠	31	------------	REMO.CON.PWB	PA-4004A-H1	
	32	SBSB4012Z	TAPPING SCREW	×14	*
	33	**CM22625-002-VA**	**DOOR**	**(US)**	*
	33	**CM22625-003-VA**	**DOOR**	**(CA)**	*
	34	CM36166-001-H	CONTROL SHEET		*
	35	SDSB3010M	TAPPING SCREW		*
	36	CM12391-C01-VA	CONTROL BASE		*
	37	Q03091-115	WASHER	×2	
	38	CM47727-001-A	DAMMPER HOLDER		*
	39	CM46031-00C	DAMPER		
	40	CM47716-002	DOOR SPRING		
	41	CM33984-00A	LOCK UNIT		
⚠	42	------------	LED PWB ASSY	PA-4003A-H1	
⚠	43	------------	FRONT CONTROL PWB	PA-4001A-H1	
	50	CM35704-001	SCR.PANEL(T,B)	×2	
	51	CM35704-002	SCR.PANEL(R,L)	×2	
	52	CM35705-001	CORNER BLOCK	×4	
	53	CM35706-001	CORNER BKT	×4	
	54	SDSA4015Z	BIND HEAD SCREW	×26	*
	55	CM35802-00A	SCREEN ASSY		*
	56	CM12404-00A	S CLAMPER T		*
	57	CM12405-00A	S CLAMPER B		*
	58	CN20353-00A-A	SP GRILLE		*
	100	CN10360-00A-A	WOOD CABI ASSY	Inc.No.101～102	*
	101	GBSA4018M	SCREW	×16	
	102	CM35707-00A-A	CASTER	×4	*

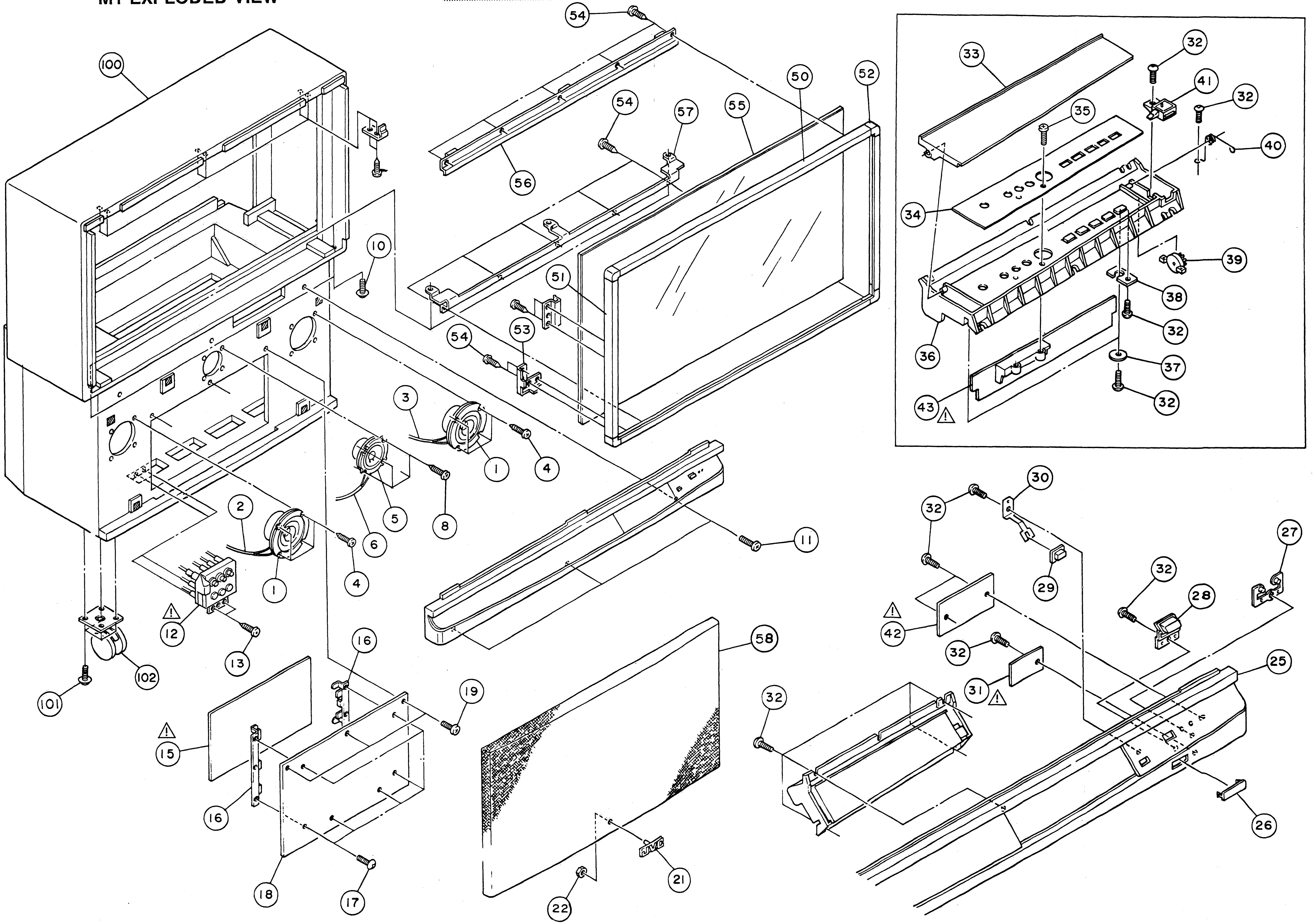
NV-55BX6(US&CA)

M2 EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	1	------------	POWER PWB ASSY	PA-9001A-H1	
	2	GBSA4018M	TAP SCREW	×2	*
⚠	3	CJ39914-A0A	HV DIVIDER		
	4	GBSB3008Z	TAPPING SCREW	×2	*
	5	CM47113-001	HVD SUPPORT		
	6	SDSA4015Z	BIND HEAD SCREW	×2	*
⚠	**7**	**CM43198-003**	**UL CAUTION**	**US ONLY**	
⚠	8	------------	AUDIO PWB ASSY	PA-6001A-H1	
⚠	9	------------	SURROUND PWB ASSY	PA-6201A-H1	
⚠	10	------------	TUNER PWB ASSY	PA-1101A-H1	
	11	CHGY0019-0A-N	RECEP WIRE ASSY		
	12	CEEM245-A06	TUNER	TU1001	*
	13	CEEM245-A06	TUNER	TU7001	*
	14	CE42538-001	2 RF SW		*
	15	SBSB4012Z	TAPPING SCREW		*
⚠	16	------------	3D Y/C SEP.MODULE	PA-0Y001A-H1	
⚠	16	------------	PIP 1 MODULE	PA-0P002A-H2	
⚠	17	------------	MI-CON PWB ASSY	PA-7001A-H1	
⚠	18	------------	VIDEO/CHROMA PWB	PA-1001A-H1	
⚠	19	------------	DEF.PWB ASSY	PA-2001A-H1	
⚠	20	------------	ASPECT PWB ASSY	PA-0A001A-H1	
⚠	22	------------	PIP 2 MODULE	PA-0P003A-H2	
⚠	23	------------	AV TERMMINAL PWB	PA-1201A-H1	
	24	CM12648-A01-V0	AV BOARD		
	25	CM22865-001-H	TERMINAL SHEET		*
	26	GBSA4018M	TAP SCREW		*
⚠	27	------------	DINAMIC FOCUS PWB	PA-0D001A-H1	
	28	CM12402-C01-V0	MAIN BASE		
	29	GBSA4018M	TAP SCREW		*
	30	CM35828-A01	D.F.INSULATOR		
⚠	31	CE42541-002	FBT	T2602	
	37	CM35909-001-A	HV WARNING		*
	38	------------	X-RAY SHIELD	×2,CM35880-A01-A	*
	39	CM35699-002-A	UNIT BEAM		*
	40	------------	UNIT BEAM 1	CM35699-001-A	*
	41	------------	HANGER	CM35701-A01-A	*
	42	------------	HANGER	CM35701-A02-A	*
	43	------------	SHADING BKT	CM35702-001-A	*
	44	**CM35838-001-A**	**WARNING LABEL**	**(US)**	*
	44	**CM47917-001-A**	**WARNING LABEL**	**(CA)**	*
	45	STSA5025W	TAP SCREW	×6	*
	46	CM35744-00A-A	LENS ASSY	×3	*
	47	CM47771-001-A	TAP SCREW	×12	*
⚠	48	CM35743-00A-A	R COUPLER ASSY		*
⚠	49	CM35743-00B-A	G COUPLER ASSY		*
⚠	50	CM35743-00C-A	B COUPLER ASSY		*
⚠	51	A75034-B	P.C.MAGNET	×3	
⚠	52	CE20251-00A	DEF YOKE	×3	*
	53	GBSB4016Z	TAPPING SCREW	×12	*
⚠	55	------------	CRT SOCKET PWB	PA-3001A-H1(×3)	
	60	CM35703-001	MIRROR HOLDER		*
	61	SBSB4012Z	TAPPING SCREW	×3	*
	62	CM35696-001-A	MIRROR		*
	63	CM12401-B01-A	REAR COVER		*
	64	GBSA4018M	TAP SCREW	×11	*
	65	CN20339-002-A	BACK BOARD		*
	66	GBSA4018M	TAP SCREW	×10	*
	67	CM30456-003-A	WIRE CLAMP		*
	68	SDSA3516M	TAP SCREW		*
⚠	69	QMP14E0-250R	POWER CORD		
	70	**CM44889-A04-A**	**RATING LABEL**	**(US)**	*
	70	**CM48051-001-A**	**RATING LABEL**	**(CA)**	*
⚠	**71**	**CM48081-001-A**	**UL WARNING**	**US ONLY**	*

M1 EXPLODED VIEW

NV-55BX6(US&CA)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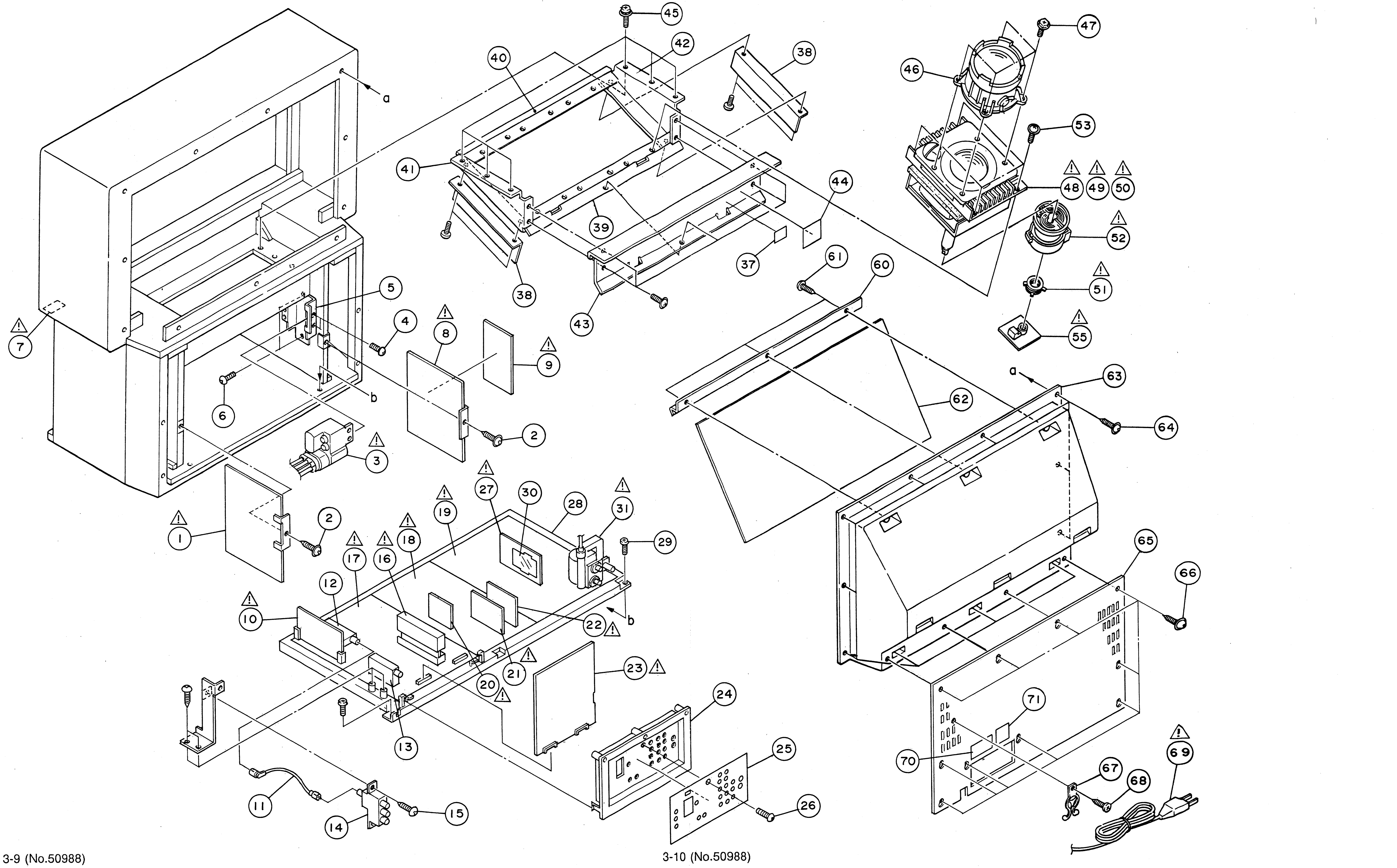
M2 EXPLODED VIEW

NV-55BX6(US&CA)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PRINTED WIRING BOARD PARTS LIST

NV-55BX6(US&CA)

VIDEO/CHROMA PW BOARD ASS'Y (PA-1001A-H1)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	VARIABLE RESISTOR				
	R1136	QVPE611-502HZ	V R	5kΩ B Y CUT OFF	
	R1139	QVPE611-502HZ	V R	5kΩ B R-Y CUT OFF	
	RESISTOR				
⚠	R1001	QRG039J-390A	OM R	39 Ω 3W J	
	R1002	QRX039J-2R7A	MF R	2.7 Ω 3W J	
	R1003	QRD123J-271SX	C R	270 Ω 1/2W J	
	R1004	QRD123J-100SX	C R	10 Ω 1/2W J	
	R1005-06	QRG039J-220	OM R	22 Ω 3W J	
	R1408	QRD123J-121SX	C R	120 Ω 1/2W J	
	CAPACITOR				
⚠	C1001	QETC1EM-107Z	E CAP.	100 μF 25V M	
⚠	C1003	QETC1EM-107Z	E CAP.	100 μF 25V M	
⚠	C1007	QETC1EM-107Z	E CAP.	100 μF 25V M	
⚠	C1011	QETC1EM-107Z	E CAP.	100 μF 25V M	
	C1101-03	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
	C1108-09	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
	C1111	QEN61HM-105Z	BP E CAP.	1 μF 50V M	
	C1113	QEN61HM-105Z	BP E CAP.	1 μF 50V M	
	C1121	NCT03CH-180AY	CHIP CAP.	18 pF 1600V H	
	C1124	NCT03CH-390AY	CHIP CAP.	39 pF 1600V H	
	C1126	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	C1302-03	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
	C1304	QETC0JM-477Z	E CAP.	470 μF 6.3V M	
	C1311	QEN61CM-336Z	BP E CAP.	33 μF 16V M	
	C1326-28	QEN61HM-105Z	BP E CAP.	1 μF 50V M	
	C1361	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	
	C1362	NCT03CH-180AY	CHIP CAP.	18 pF 1600V H	
	C1363	NCB21HK-223AY	CHIP CAP.	0.022 μF 50V K	
	C1364	QEN61HM-335Z	BP E CAP.	3.3 μF 50V M	
	C1365	NCB21HK-223AY	CHIP CAP.	0.022 μF 50V K	
	C1366	NCT03CH-7R0AY	CHIP CAP.	7 pF 1600V H	
	C1367-68	QEN61HM-105Z	BP E CAP.	1 μF 50V M	
	C1401	NCS21HJ-221AY	CHIP C CAP.	220 pF 50V J	
	C1402	QFLC1HK-223MZ	M CAP.	0.022 μF 50V K	
	C1409	QFV71HJ-394MZ	TF CAP.	0.39 μF 50V J	
	C1410	QFV71HJ-334MZ	TF CAP.	0.33 μF 50V J	
	C1412	QFLC1HK-333MZ	M CAP.	0.033 μF 50V K	
	C1415	NCB21EK-683AY	CHIP CAP.	0.068 μF 25V K	
	C1416	NCB21HK-682AY	CHIP CAP.	6800 pF 50V K	
	C1417	NCB21HK-223AY	CHIP CAP.	0.022 μF 50V K	
	C1419	NCS21HJ-121AY	CHIP C CAP.	120 pF 50V J	
	C1420	NCT03CH-220AY	CHIP CAP.	22 pF 1600V H	
	C1421	NCB21EK-563AY	CHIP CAP.	0.056 μF 25V K	
	C1501	NCT03CH-7R0AY	CHIP CAP.	7 pF 1600V H	
	C1502	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
	C1503	NCT03CH-7R0AY	CHIP CAP.	7 pF 1600V H	
	C1504	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
	C1505	NCT03CH-7R0AY	CHIP CAP.	7 pF 1600V H	
	C1506	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
	C1519	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	C1601	NCT03CH-680AY	CHIP CAP.	68 pF 1600V H	
	C1702	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	C1712	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	C1713	QEN61CM-336Z	BP E CAP.	33 μF 16V M	
	C1714	QETC1HM-105Z	E CAP.	1 μF 50V M	
	C1715	QEN61CM-336Z	BP E CAP.	33 μF 16V M	
	C1716	QETC1HM-105Z	E CAP.	1 μF 50V M	
	C1801	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	DIODE				
	D1101	RD5.1E(B2)-T2	ZENER DIODE		
	D1102-04	M1MA151A-X	CHIP DIODE		
	D1301-02	MA3056-X	ZENER DIODE		
	D1308	1SS133-T2	SI.DIODE		

NV-55BX6(US&CA)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	DIODE				
	D1309	1SS133	SI.DIODE		
	D1311	RD12ES(B3)-T2	ZENER DIODE		
	D1312-13	M1MA151A-X	CHIP DIODE		
	D1314	RD10ES(B3)-T2	ZENER DIODE		
	D1315-16	M1MA151A-X	CHIP DIODE		
	D1317	MA3051-X	ZENER DIODE		
	D1401	MA3062-X	CHIP ZENER DIODE		
	D1403	MA3051-X	ZENER DIODE		
	D1404	RD5.1ES(B1)-T2	ZENER DIODE		
	D1501	M1MA151A-X	CHIP DIODE		
	D1502	MA152WK-X	CHIP DIODE		
	D1504-05	M1MA151A-X	CHIP DIODE		
	D1506-08	MA3039(H)-X	ZENER DIODE		
	D1601-09	MA165-T2	SI.DIODE		
	D1701-06	M1MA151A-X	CHIP DIODE		
	D1801-02	M1MA151A-X	CHIP DIODE		
	TRANSISTOR				
	Q1101-07	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1108	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1109-13	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1311	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1312-13	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1314-15	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1319	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1320	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1323	2SC3311A(QR)-T	SI.TRANSISTOR		
	Q1361-62	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1402	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1404-06	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1407	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1408	DTC144WKA-X	DIGI TRANSISTOR		
	Q1409-10	DTC124EKA-X	DIGI TRANSISTOR		
	Q1411	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1412	2SA1309A(QR)	SI TRANSISTOR		
	Q1501-03	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1507	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1508	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1509	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1510	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1511	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1512	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1513	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1515-24	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1525	DTC144ES-T	DIGI.TRANSISTOR		
	Q1603-04	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1605	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1701-06	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1711-12	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1801-03	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1804	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1805	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1806	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1807-09	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1810	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1811-16	2SC2412K(QR)-X	CHIP TRANSISTOR		
	IC				
⚠	IC1001	AN7812F	I.C(MONO-ANA)		
⚠	IC1002	AN7809F	I.C.		
	IC1003	AN7805F	I.C(MONO-ANA)		
⚠	IC1004	AN7812F	I.C(MONO-ANA)		
⚠	IC1006	AN7812F	I.C(MONO-ANA)		
	IC1101	AN5867K-A	I.C.		
	IC1301	JCC1007	I.C(MONO-ANA)		
	IC1501	CX20100	I C		

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC				
IC1701	AN5860	I.C.(M)		
IC1702	BA7655AF-X	I C		
OTHERS				
CF1401	CSB503F39	CER.RESONATOR		
X1361	CE41651-001Z	X-TAL		

ASPECT PW BOARD ASS'Y (PA-0A001A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R1247	QRD123J-150SX	C R	15 Ω 1/2W J	
CAPACITOR				
C1201	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
C1203	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
C1205	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
C1206	QFV71HJ-104MZ	TF CAP.	0.1 μF 50V J	
C1213	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1215	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1217	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1221	QFV71HJ-104MZ	TF CAP.	0.1 μF 50V J	
C1223	NCT03CH-100AY	CHIP CAP.	10 pF 1600V H	
C1224-25	NCT03CH-221AY	CHIP CAP.	220 pF 1600V H	
C1226	NCT03CH-271AY	CHIP CAP.	270 pF 1600V H	
COIL				
L1201	CELP026-101Z	PEAKING COIL	100 μH	
L1202	CELP026-470Z	PEAKING COIL	47 μH	
DIODE				
D1201-02	M1MA151A-X	CHIP DIODE		
TRANSISTOR				
Q1201-07	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q1208	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q1209	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q1210-12	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q1213	DTC124EKA-X	DIGI.TRANSISTOR		
IC				
IC1201	SAA4981	I C		
OTHERS				
DL1201-02	CE40986-A01	DELAY LINE		

DINAMIC FOCUS PW BOARD ASS'Y (PA-0D001A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R2653	QRZ0056-562Z	COMP.R	5.6kΩ	
R2654	QRZ0056-103Z	COMP.R	10kΩ	
R2676-77	QRD149J-152S	C R	1.5kΩ 1/4W J	
CAPACITOR				
C2601	QEN61HM-335Z	BP E CAP.	3.3μF 50V M	
C2603	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J	
C2607	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J	
C2609	QFV71HJ-224MZ	TF CAP.	0.22μF 50V J	
C2612	QFZ0081-1002S	M P P CAP.	10pF	
C2615	QFZ0081-1001S	M P P CAP.	10pF	
C2616-17	QFV71HJ-124MZ	TF CAP.	0.12μF 50V J	
DIODE				
D2603	1SS133-T2	SI.DIODE		
D2605-06	1SS133-T2	SI.DIODE		
D2607	ES1F-LFG2	SI.DIODE		
D2608-09	1SS133-T2	SI.DIODE		
D2610	ES1F-LFG2	SI.DIODE		
TRANSISTOR				
Q2601-03	2SC1740S(QR)-T	SI.TRANSISTOR		
Q2604	2SA933S(QR)-T	SI.TRANSISTOR		
Q2605	2SC1740S(QR)-T	SI.TRANSISTOR		
Q2606-07	2SC4256	SI.TRANSISTOR		
Q2608	2SA933S(QR)-T	SI.TRANSISTOR		
Q2609	2SC1740S(QR)-T	SI.TRANSISTOR		
Q2610-11	2SC4256	SI.TRANSISTOR		
Q2612	2SA933S(QR)-T	SI.TRANSISTOR		
Q2613-14	2SC1740S(QR)-T	SI.TRANSISTOR		
Q2615	2SA933S(QR)-T	SI.TRANSISTOR		
Q2616-17	2SC1740S(QR)-T	SI.TRANSISTOR		
OTHERS				
SG2601	CE42447-302	ARRESTOR		

TUNER PW BOARD ASS'Y (PA-1101A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
VARIABLE RESISTOR				
R1131	QVPE611-102HZ	V R	1kΩ B DET.OUT LEV	
RESISTOR				
R1001	QRD149J-150S	C R	15 Ω 1/4W J	
CAPACITOR				
C1005	QFLC1HK-103MZ	M CAP.	0.01 μF 50V K	
C1009-12	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C1014	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C1053	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1101	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1104	NCB21HK-472AY	CHIP CAP.	4700 pF 50V K	
C1108	QFV71HJ-224MZ	TF CAP.	0.22 μF 50V J	
C1109-10	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1113	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1119	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1125	NCT03CH-220AY	CHIP CAP.	22 pF 1600V H	
C1127	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1128	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	
C1133	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C1139	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1140	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	
C1141	NCB21EK-683AY	CHIP CAP.	0.068 μF 25V K	
C1142	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C1143	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1144	QEB61HM-104MZ	E CAP.	0.1 μF 50V M	
C1145	NCB21HK-332AY	CHIP CAP.	3300 pF 50V K	
C1146-47	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1171	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1172-73	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
TRANSFORMER				
T1111	CE40123-501	AFC TRANSFORMER		
T1115	CELT003-105	S.I.F.TRANSF		
T1116	CELT003-106	S.I.F.TRANSF.		
COIL				
L1001	CELP026-150Z	PEAKING COIL	15 μH	
L1102	CE41131-R47Y	CHIP INDUCTOR		
L1105	CE41131-R47Y	CHIP INDUCTOR		
L1106	CELP040-R56YL	CHIP P COIL	0.56 μH	
L1109	CE41131-2R2Y	CHIP INDUCTOR		
L1121	CE41131-150Y	CHIP INDUCTOR		
DIODE				
D1001	MA3330(L)-X	CHIP ZENER DIODE		
TRANSISTOR				
Q1101	2SC5083(L-P)-T	SI.TRANSISTOR		
Q1103	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q1105	2SC2412K(QR)-X	CHIP TRANSISTOR		
I C				
IC1101	LA7577N	I.C(MONO-ANA)		
IC1191	AN78L09-Y	I C		
IC1901	AN7812F	I.C(MONO-ANA)		
IC1902	AN78L05-Y	I.C.		
OTHERS				
CF1001	FTP47.25MF	CERAMIC TRAP		
CF1102	CE41505-001	CERAMIC FILTER		
CF1106	SFSH4.5MCB	CERAMIC FILTER		
K1901-02	CE42050-001Z	CORE		
SF1101	CE41031-202	SAW FILTER		
SF1102	CE42377-201	SAW FILTER		

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AV TERMINAL PW BOARD ASS'Y (PA-1201A-H1)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R1125	QRG019J-220S	OM R	22 Ω 1W J	
	R1178	QRD129J-151S	C R	150 Ω 1/2W J	
	CAPACITOR				
	C1101-06	NCS21HJ-101AY	CHIP CAP.	100 Ω 50V J	
	C1107-10	NCS21HJ-271AY	CHIP C CAP.	100 Ω 50V J	
	C1125	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	C1130	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	C1135	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	C1138	QEN61CM-336Z	BP E CAP.	33 μF 16V M	
	C1139-41	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	C1161-62	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
	C1173-74	NCT03CH-150AY	CHIP CAP.	15 pF 1600V H	
	C1204-05	NCT03CH-330AY	CHIP CAP.	33 pF 1600V H	
	C1312-13	NCT03CH-330AY	CHIP CAP.	33 pF 1600V H	
	DIODE				
	D1101-09	MA3120-X	ZENER DIODE		
	D1110	RD9.1E(B2)-T5	ZENER DIODE		
	D1117-28	MA3120-X	ZENER DIODE		
	D1201-04	MA3120-X	ZENER DIODE		
	D1301-04	MA3120-X	ZENER DIODE		
	D1401-02	M1MA151A-X	CHIP DIODE		
	D1404-07	M1MA151A-X	CHIP DIODE		
	D1501-04	MA3120-X	ZENER DIODE		
	D1601-03	MA3068(M)-X	CHIP ZENER DIODE		
	TRANSISTOR				
	Q1102-03	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1106	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1107-08	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1401	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1402-04	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1405-08	DTC363TK-X	DIGI TRANSISTOR		
	IC				
	IC1101	CXA1545AS	I.C.		
	IC1201	XRA15218N	I.C(MONO-ANA)		
	IC1301	MC14052BCP	I.C(DIGI-MOS)		
	IC1302	XRA15218N	I.C(MONO-ANA)		
	OTHERS				
	CN1001-02	CHA401N-25R-J	HQF CONNECTOR		
	J1001	CEMN073-001	PIN JACK		
	J1002	QMCC008-C01	DIN JACK		
	J1003	CEMN073-001	PIN JACK		
	J1004	QMCC008-C01	DIN JACK		
	J1005	CEMN073-001	PIN JACK		
	J1006	CEMN045-001	PIN JACK		
	J1007	CEMN057-001	PIN JACK		
	J1008	AX49607-024	MINI JACK		
	J1009-10	AX49607-020	MINI JACK		
	J1011	CEMT006-001	EXT.SP TERMINAL		
	S1001	QSS1F42-C01	SLIDE SWITCH	INT-EXT SW	
	W1006	QRD162J-221	C R	220 Ω 1/6W J	
⚠	W1018	QRD149J-221S	C R	220 Ω 1/4W J	

CRT SOCKET PW BOARD ASS'Y (PA-3001A-H1)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	VARIABLE RESISTOR				
	R3367	QVPCE01-205M	V R	2MΩ B R SCREEN	
	R3368	QVPCE01-205M	V R	2MΩ B G SCREEN	
	R3369	QVPCE01-205M	V R	2MΩ B B SCREEN	
	RESISTOR				
	R3310-12	QRG029J-153	OM R	15kΩ 2W J	
	R3313-15	QRG029J-183	OM R	18kΩ 2W J	
	R3316-21	QRV141F-33R0AY	MF R	33 Ω 1/4W F	
⚠	R3322	QRD149J-102S	C R	1kΩ 1/4W J	
⚠	R3323	QRD149J-102S	C R	1kΩ 1/4W J	
⚠	R3324	QRD149J-102S	C R	1kΩ 1/4W J	
	CAPACITOR				
⚠	C3321	QETC2EM-475Z	E CAP.	4.7μF 250V M	
⚠	C3322	QETC2EM-475Z	E CAP.	4.7μF 250V M	
⚠	C3323	QETC2EM-106Z	E CAP.	10μF 250V M	
	C3360	QFP32GK-563M	PP CAP.	0.056μF 400V K	
	C3361-63	QFZ0097-103M	M M CAP.	0.01μF	
	COIL				
	L3301-03	CELP026-470Z	PEAKING COIL	47μH	
	L3304-06	CELP026-180Z	PEAKING COIL	18μH	
	DIODE				
	D3301-03	MA165-T2	SI.DIODE		
	D3304-06	1SS244-T2	SI.DIODE		
	D3307-12	1SS120-T2	SI DIODE		
	D3313	1SS133-T2	SI.DIODE		
	D3316	1SS133-T2	SI.DIODE		
	D3361	TVR4J-T3	SI.DIODE		
	TRANSISTOR				
	Q3301-03	2SC4502-T	SI.TRANSISTOR		
	Q3304-06	2SC4544-C1	SI.TRANSISTOR		
	Q3307-09	2SA1321-T	SI TRANSISTOR		
	Q3310-12	2SC3334-T	SI TRANSISTOR		
	Q3341	2SC3311A(QR)-T	SI.TRANSISTOR		
	Q3342	2SA1309A(QR)-T	SI.TRANSISTOR		
	OTHERS				
⚠	SC3301	CE41602-001	C.R.T.SOCKET		
⚠	SC3302	CE41602-001	C.R.T.SOCKET		
⚠	SC3303	CE41602-001	C.R.T.SOCKET		
⚠	SG3361	CE42447-501	ARRESTOR		
⚠	SG3362	CE42447-501	ARRESTOR		
⚠	SG3363	CE42447-501	ARRESTOR		
⚠	VA3361	ERZ-C05ZJ361	VARISTOR	360V	
⚠	VA3362	ERZ-C05ZJ361	VARISTOR	360V	
⚠	VA3363	ERZ-C05ZJ361	VARISTOR	360V	

FRONT CONTROL PW BOARD ASS'Y (PA-4001A-H1)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	CAPACITOR				
	C4001	QFLC1HK-103MZ	M CAP.	0.01μF 50V K	
	C4003	QFLC1HK-103MZ	M CAP.	0.01μF 50V K	
	TRANSISTOR				
	Q4002	2SC3311A(QR)-T	SI.TRANSISTOR		
	OTHERS				
	J4001	CEMZ004-001	JACK ASSY		
	S4001	QSP4H11-C08	PUSH SWITCH	FUNCTION	
	S4002	QSP4H11-C08	PUSH SWITCH	CHANNEL+	
	S4003	QSP4H11-C08	PUSH SWITCH	CHANNEL-	
	S4004	QSP4H11-C08	PUSH SWITCH	VOLUME+	
	S4005	QSP4H11-C08	PUSH SWITCH	VOLUME-	
	S4007	QSTP102-C02	PUSH SWITCH	FRONT/REAR	

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AUDIO PW BOARD ASS'Y (PA-6001A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
⚠ R6002	QRD149J-470S	C R	47 Ω 1/4W J	
⚠ R6103	QRD149J-560S	C R	56 Ω 1/4W J	
⚠ R6111	QRD149J-2R2S	C R	2.2 Ω 1/4W J	
⚠ R6114	QRD149J-2R2S	C R	2.2 Ω 1/4W J	
⚠ R6203	QRD149J-560S	C R	56 Ω 1/4W J	
⚠ R6211	QRD149J-2R2S	C R	2.2 Ω 1/4W J	
⚠ R6214	QRD149J-2R2S	C R	2.2 Ω 1/4W J	
⚠ R6303	QRD149J-560S	C R	56 Ω 1/4W J	
⚠ R6311	QRD149J-2R2S	C R	2.2 Ω 1/4W J	
CAPACITOR				
⚠ C6001	QETC1CM-107Z	E CAP.	100 μF 16V M	
C6004-05	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
C6010	QETB1VM-338	E CAP.	3300 μF 35V M	
C6011-12	QEN61HM-105Z	BP E CAP.	1 μF 50V M	
C6015-16	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6017-21	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
C6101	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6102-07	QFLC1HJ-104MZ	M CAP.	0.1 μF 50V J	
C6108	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6109-10	QFLC1HJ-272MZ	M CAP.	2700 pF 50V J	
C6116-17	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6121	QFV71HJ-124MZ	TF CAP.	0.12 μF 50V J	
⚠ C6124	QETB1VM-108	E CAP.	1000 μF 35V M	
C6125	QFV71HJ-124MZ	TF CAP.	0.12 μF 50V J	
⚠ C6126	QETB1VM-108	E CAP.	1000 μF 35V M	
⚠ C6127	QETB1VM-108	E CAP.	1000 μF 35V M	
C6201	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6202-07	QFLC1HJ-104MZ	M CAP.	0.1 μF 50V J	
C6208	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6209-10	QFLC1HJ-272MZ	M CAP.	2700 pF 50V J	
C6216-17	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6221	QFV71HJ-124MZ	TF CAP.	0.12 μF 50V J	
⚠ C6224	QETB1VM-108	E CAP.	1000 μF 35V M	
C6225	QFV71HJ-124MZ	TF CAP.	0.12 μF 50V J	
⚠ C6226	QETB1VM-108	E CAP.	1000 μF 35V M	
⚠ C6227	QETB1VM-108	E CAP.	1000 μF 35V M	
C6301	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6302-07	QFLC1HJ-104MZ	M CAP.	0.1 μF 50V J	
C6308	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6309-10	QFLC1HJ-272MZ	M CAP.	2700 pF 50V J	
C6317	QEN61HM-225Z	BP E CAP.	2.2 μF 50V M	
C6321	QFV71HJ-124MZ	TF CAP.	0.12 μF 50V J	
⚠ C6324	QETB1VM-108	E CAP.	1000 μF 35V M	
⚠ C6326	QETB1VM-108	E CAP.	1000 μF 35V M	
DIODE				
D6001	MA165-T2	SI.DIODE		
D6005-07	MA165-T2	SI.DIODE		
D6101	RD9.1ES(B2)-T2	ZENER DIODE		
D6105-06	RD33ES(B1)-T2	ZENER DIODE		
D6201	RD9.1ES(B2)-T2	ZENER DIODE		
D6205-06	RD33ES(B1)-T2	ZENER DIODE		
D6301	RD9.1ES(B2)-T2	ZENER DIODE		
D6305	RD33ES(B1)-T2	ZENER DIODE		
TRANSISTOR				
Q6001-02	DTC323TS-T	DIGI.TRANSISTOR		
Q6003	2SA1309A(QR)-T	SI.TRANSISTOR		
Q6006	2SC3311A(QR)-T	SI.TRANSISTOR		
Q6007	2SA1309A(QR)-T	SI.TRANSISTOR		
Q6101	2SC3311A(QR)-T	SI.TRANSISTOR		
Q6201	2SC3311A(QR)-T	SI.TRANSISTOR		
Q6301	2SC3311A(QR)-T	SI.TRANSISTOR		

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⚠	Symbol No.	Part No.	Part Name	Description	Local
	I C				
⚠	IC6001	TA79L012P-Y	I.C.		
	IC6003	XRA15218N	I.C(MONO-ANA)		
	IC6004-06	TDA7314V	I.C(DIGI-OTHER)		
⚠	IC6007	MC13516T2	I.C(MONO-ANA)		
⚠	IC6008	MC13516T2	I.C(MONO-ANA)		
⚠	IC6009	MC13516T2	I.C(MONO-ANA)		

LED PW BOARD ASS'Y (PA-4003A-H1)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	DIODE				
	D4001	GL5RG5	L.E.D.	POWER	
	D4002	SEL1710Y	L.E.D.	ON TIMER	
	TRANSISTOR				
	Q4001	2SA1309A(QR)-T	SI.TRANSISTOR		
	OTHERS				
		CM44462-C01	LED SHADE		
	S4006	QSP1A11-C20Z	PUSH SWITCH	POWER	

REMO.CON PW BOARD ASS'Y (PA-4004A-H1)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	I C				
	IC4001	SPS-420-1	IFR DETECT UNIT		

NV-55BX6(US&CA) /NV-55BH6(US)

DEF.PW BOARD ASS'Y (PA-2001A-H1)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	VARIABLE RESISTOR				
	R2472	QVPC611-502HZ	V R	5kΩ B V.FREQ.	
	R2511	QVPC611-502HZ	V R	5kΩ B H.FREQ.	
	RESISTOR				
	R2318	QRD149J-153S	C R	15kΩ 1/4W J	
	R2413	QRD149J-390S	C R	39 Ω 1/4W J	
⚠	R2500	QRD121J-104SY	C R	100kΩ 1/2W J	
	R2516	QRG039J-562	OM R	5.6kΩ 3W J	
	R2517	QRG039J-332	OM R	3.3kΩ 3W J	
	R2527-28	QRG039J-223	OM R	22kΩ 3W J	
	R2530	QRG039J-100	OM R	10 Ω 3W J	
	R2544	QRD123J-682SX	C R	6.8kΩ 1/2W J	
	R2563-64	QRG039J-123	OM R	12kΩ 3W J	
⚠	R2579	QRZ0103-016	NET R		
⚠	R2580	QRV141F-1401AY	MF R	1.4kΩ 1/4W F	
⚠	R2583	QRV141F-1401AY	MF R	1.4kΩ 1/4W F	
	R2589	QRD149J-1R0S	C R	1 Ω 1/4W J	
	R2590	QRD123J-101SX	C R	100 Ω 1/2W J	
	R2591	QRG019J-153S	OM R	15kΩ 1W J	
	R2592	QRG019J-273S	OM R	27kΩ 1W J	
	R2594	QRG019J-273S	OM R	27kΩ 1W J	
⚠	R2598	QRD129J-1R0S	C R	1 Ω 1/2W J	
⚠	R2600	QRD129J-1R0S	C R	1 Ω 1/2W J	
⚠	R2604	QRZ0103-016	NET R		
	R2702	QRV141F-5621AY	MF R	5.62kΩ 1/4W F	
⚠	R2708	QRD129J-561S	C R	560 Ω 1/2W J	
⚠	R2709	QRD129J-1R0S	C R	1 Ω 1/2W J	
⚠	R2710	QRD129J-1R0S	C R	1 Ω 1/2W J	
⚠	R2711	QRD129J-1R0S	C R	1 Ω 1/2W J	
	R2712	QRG029J-391A	OM R	390 Ω 2W J	
⚠	R2714	QRD129J-1R0S	C R	1 Ω 1/2W J	
	R2718	QRG029J-471A	OM R	470 Ω 2W J	
⚠	R2723	QRD129J-1R0S	C R	1 Ω 1/2W J	
	CAPACITOR				
⚠	C2102	QETB1EM-477	E CAP.	470μF 25V M	
	C2301	QEN61CM-106Z	BP E CAP.	10μF 16V M	
	C2305	QFLC1HJ-333MZ	M CAP.	0.033μF 50V J	
	C2402	QFV71HJ-394MZ	TF CAP.	0.39μF 50V J	
	C2404	QFV71HJ-394MZ	TF CAP.	0.39μF 50V J	
	C2407	QEN61HM-475Z	BP E CAP.	4.7μF 50V M	
	C2410	QFLC1HJ-473MZ	M CAP.	0.047μF 50V J	
	C2411	QFV71HJ-473MZ	TF CAP.	0.047μF 50V J	
	C2412	QEE61CK-225BZ	TAN.CAP.	2.2μF 16V K	
	C2413	QFV71HJ-333MZ	TF CAP.	0.033μF 50V J	
	C2415	QFLC1HJ-473MZ	M CAP.	0.047μF 50V J	
	C2416	QFLC1HJ-103MZ	M CAP.	0.01μF 50V J	
⚠	C2417	QEE61VK-105BZ	TAN.CAP.	1μF 35V K	
⚠	C2418	QETC1VM-477Z	E CAP.	470μF 35V M	
⚠	C2420	QETC1VM-107Z	E CAP.	100μF 35V M	
	C2426	QEN61CM-476Z	BP E CAP.	47μF 16V M	
	C2428	QFV71HJ-124MZ	TF CAP.	0.12μF 50V J	
	C2429	QFLC1HJ-224MZ	M CAP.	0.22μF 50V J	
	C2431	QFLC1HJ-223MZ	M CAP.	0.022μF 50V J	
	C2502	QFLC1HJ-223MZ	M CAP.	0.022μF 50V J	
	C2503	QFLC1HJ-103MZ	M CAP.	0.01μF 50V J	
	C2504	QFV71HJ-105MZ	TF CAP.	1μF 50V J	
	C2506	QFLC1HJ-822MZ	M CAP.	8200pF 50V J	
	C2508	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J	
	C2511	QFP31HJ-562SZ	PP CAP.	5600pF 50V J	
	C2514	QETC2CM-105Z	E CAP.	1μF 160V M	
⚠	C2515	QFZ0117-6001S	M P P CAP.	6000pF 2kV ±2.5%	
⚠	C2516	QFZ0117-5501S	M P P CAP.	5500pF 2kV ±2.5%	
⚠	C2517	QFP32GJ-223M	PP CAP.	0.022μF 400V J	

NV-55BX6(US&CA) /NV-55BH6(US)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	CAPACITOR				
	C2518-19	QEM61HK-475MZ	E CAP.	4.7μF 50V K	
⚠	C2520	QFZ0082-501S	M P P CAP.	500pF 1.6kV J	
⚠	C2521	QFZ0119-104S	M P P CAP.	0.1μF 200V ±3%	
	C2522	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J	
	C2523	QFZ0119-304S	M P P CAP.	0.3μF 200V ±3%	
	C2524	QFZ0119-354S	M.PP CAP.	0.35μF 200V ±3%	
	C2533	QEN61HM-335Z	BP E CAP.	3.3μF 50V M	
⚠	C2536	QFZ0117-5001S	M P P CAP.	5000pF 2kV ±2.5%	
⚠	C2537	QFZ0117-5501S	M P P CAP.	5500pF 2kV ±2.5%	
	C2538	QFV71HJ-334MZ	TF CAP.	0.33μF 50V J	
⚠	C2539	QFZ0119-564S	M.PP CAP.	0.56μF 200V ±3%	
⚠	C2540	QEZ0097-106R	E.CAP.	10μF 160V M	
	C2546	QEN61HM-476Z	BP E CAP.	47μF 50V M	
⚠	C2550	QETB2CM-227	E CAP.	220μF 160V M	
⚠	C2552	QETC0JM-107Z	E CAP.	100μF 6.3V M	
	C2556	QETB2EM-336	E CAP.	33μF 250V M	
	C2557	QETB1JM-107	E CAP.	100μF 63V M	
	C2558	QETB1VM-228	E CAP.	2200μF 35V M	
	C2560	QETB2CM-107	E CAP.	100μF 160V M	
⚠	C2561	QFZ0081-1002S	M P P CAP.	10pF	
⚠	C2564	QEZ0150-127R	E CAP.	120μF	
	C2566-67	QEN61HM-105Z	BP E CAP.	1μF 50V M	
⚠	C2568	QETC1HM-476Z	E CAP.	47μF 50V M	
	C2569	QFLC1HJ-103MZ	M CAP.	0.01μF 50V J	
⚠	C2570	QFZ0119-105S	M P P CAP.	1μF 200V ±3%	
⚠	C2571	QFZ0119-804S	M.PP CAP.	0.8μF 200V ±3%	
	C2701	QETC2CM-105Z	E CAP.	1μF 160V M	
	C2703	QFV71HJ-684MZ	TF CAP.	0.68μF 50V J	
	TRANSFORMER				
	T2501	CE42034-001	H.DRIVE TRANSF.		
⚠	T2502	CE42352-00A	H.O.T		
	T2601	CE42034-001	H.DRIVE TRANSF.		
⚠	T2603	CE42502-001J1	DUMMY YOKE		
	COIL				
	L2501	CELC901-016J6	HEATER CHOKE		
⚠	L2502	CELL001-003	LINIARITY COIL		
	L2503	CELC052-821	CHOKE COIL		
	DIODE				
	D2301-06	1SS133-T2	SI.DIODE		
	D2307	RG2A-LFC4	SI.DIODE		
	D2401-02	1SS133-T2	SI.DIODE		
	D2403	RD11ES(B3)-T2	ZENER DIODE		
⚠	D2404	1SR35-100A-T2	SI.DIODE		
	D2406	HZ9B1L-T2	ZENER DIODE		
	D2407-10	1SS133-T2	SI.DIODE		
	D2501	RD11ES(B3)-T2	ZENER DIODE		
	D2503	RD12E(B3)-T2	ZENER DIODE		
⚠	D2504	ERD08M-15	SI.DIODE		
⚠	D2505	RU4AM-C1	SI.DIODE		
	D2507-08	1SS82-T2	SI.DIODE		
	D2511	1SS133-T2	SI.DIODE		
⚠	D2512	ERD07-15-L	SI.DIODE		
⚠	D2516	EU2A-LFF4	SI.DIODE		
⚠	D2517	1SS82-T2	SI.DIODE		
	D2518	MA4180(M)-T2	ZENER DIODE		
	D2519	1SS133-T2	SI.DIODE		
	D2520	HZ18-2L-T2	ZENER DIODE		
	D2521-23	1SS133-T2	SI.DIODE		
⚠	D2524	HZ5C1(C1)-T2	ZENER DIODE		
	D2525	1SS133-T2	SI.DIODE		
	D2526	RD33E(B1)-T2	ZENER DIODE		
⚠	D2527	HZ5C1(C1)-T2	ZENER DIODE		
	D2528	HZ6A1L-T2	ZENER DIODE		

NV-55BX6(US&CA) /NV-55BH6(US)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	DIODE				
	D2529	RD18ES(B3)-T2	ZENER DIODE		
⚠	D2530	V11CA-C1	SI DIODE		
⚠	D2531	RH1S-LFA1	SI.DIODE		
⚠	D2532	RU3AM-LFC4	SI.DIODE		
⚠	D2533	RU3AM-LFC4	SI.DIODE		
⚠	D2535	EU2A-T3	SI.DIODE		
⚠	D2536	EU2A-LFF4	SI.DIODE		
	D2537	SLR-342VC3F	L E D (RED)		
⚠	D2538	RU4AM-C1	SI.DIODE		
	D2539	1S2473H-T2	SI.DIODE		
	D2540-41	1SS133-T2	SI.DIODE		
⚠	D2542	EU2A-LFF4	SI.DIODE		
	D2543	MA4330(M)-T2	ZENER DIODE		
	D2544	1SS133-T2	SI.DIODE		
	TRANSISTOR				
	Q2301-03	2SC1740S(QR)-T	SI.TRANSISTOR		
	Q2304	2SA1499(QPO)	SI.TRANSISTOR		
⚠	Q2305	2SA1499(QPO)	SI.TRANSISTOR		
	Q2306	2SC1740S(QR)-T	SI.TRANSISTOR		
	Q2401-03	2SC1740S(QR)-T	SI.TRANSISTOR		
	Q2404	2SA933S(QR)-T	SI.TRANSISTOR		
	Q2405-06	DTC124XS-T	DIGI.TRANSISTOR		
	Q2408-12	2SC1740S(QR)-T	SI.TRANSISTOR		
	Q2413	2SA933S(QR)-T	SI.TRANSISTOR		
	Q2414	2SC1740S(QR)-T	SI.TRANSISTOR		
	Q2415	2SA933S(QR)-T	SI.TRANSISTOR		
	Q2419	2SA933S(QR)-T	SI.TRANSISTOR		
	Q2420	2SC1740S(QR)-T	SI.TRANSISTOR		
	Q2421	2SA933S(QR)-T	SI.TRANSISTOR		
	Q2422	2SC1740S(QR)-T	SI.TRANSISTOR		
	Q2502	2SA933S(QR)-T	SI.TRANSISTOR		
	Q2503	2SC2653-RL	SI.TRANSISTOR		
⚠	Q2504	2SD2348-LB	SI.TRANSISTOR		
	Q2507-08	2SA933S(QR)-T	SI.TRANSISTOR		
	Q2509	2SD1266A(QP)	SI.TRANSISTOR		
	Q2510	2SC1740S(QR)-T	SI.TRANSISTOR		
	Q2511-12	2SA933S(QR)-T	SI.TRANSISTOR		
	Q2513	2SC2653-RL	SI.TRANSISTOR		
⚠	Q2514	2SD2348-LB	SI.TRANSISTOR		
⚠	Q2517	2SD1090	SI.TRANSISTOR		
	Q2518	2SC2229(Y)-T	SI.TRANSISTOR		
⚠	Q2519	2SA949(Y)C1-T	SI.TRANSISTOR		
⚠	Q2520	SF0R1A42-T	S C R		
	Q2521	2SC1573(PQR)	SI.TRANSISTOR		
	Q2522	2SC2229(Y)-T	SI.TRANSISTOR		
⚠	Q2523	2SC1573(PQR)	SI.TRANSISTOR		
	Q2525	DTC144ES-T	DIGI.TRANSISTOR		
⚠	Q2526	IRF620	F.E.T.		
	IC				
⚠	IC2101	UPC2412HF	I.C(MONO-ANA)		
	IC2102	TA78L12S-Y	I.C(MONO-ANA)		
	IC2301	UPC358C	I.C(MONO-ANA)		
	IC2401	TC4538BP	I.C(DIGI-MOS)		
	IC2402	AN5422K	I.C(MONO-ANA)		
⚠	IC2403	LA7838	I.C(MONO-ANA)		
	IC2404	TC4538BP	I.C(DIGI-MOS)		
	IC2405	UPC358C	I.C(MONO-ANA)		
	IC2406	TC4538BP	I.C(DIGI-MOS)		
⚠	IC2501	UPC358C	I.C(MONO-ANA)		
⚠	IC2502	UPC358C	I.C(MONO-ANA)		
⚠	IC2503	UPC358C	I.C(MONO-ANA)		
	OTHERS				
	PC2504	TLP621(GB)	I.C(PH COUPLER)		
	S2401	QSL6A13-C01	LEVER SWITCH	V.FREQ.SW	

SURROUND PW BOARD ASS'Y (PA-6201A-H1)

⚠ Symbol No.	Part No.	Part Name	Description			Local
RESISTOR						
R6601	QRD123J-680SX	C R	68 Ω	1/2W	J	
R6911	QRB085J-474	NET R	470k Ω			
R6912-13	QRB085J-103	NETW.R	10k Ω			
CAPACITOR						
C6121-23	QEN61CM-106Z	BP E CAP.	10 μF	16V	M	
C6154	NCB11HK-104AY	CHIP CAP.	0.1 μF	50V	K	
C6201-02	QEN61CM-106Z	BP E CAP.	10 μF	16V	M	
C6203-04	QFLC1HJ-332MZ	M CAP.	3300 pF	50V	J	
C6207-08	NCS21HJ-121AY	CHIP C CAP.	120 pF	50V	J	
C6212-13	QFP31HG-332SZ	PP CAP.	3300 pF	50V	G	
C6301-02	NCT03CH-220AY	CHIP CAP.	22 pF	1600V	H	
C6303	NCB11HK-104AY	CHIP CAP.	0.1 μF	50V	K	
C6305	NCB11HK-104AY	CHIP CAP.	0.1 μF	50V	K	
C6307	NCT03CH-101AY	CHIP CAP.	100 pF	1600V	H	
C6311	QEN61EM-226Z	BP E CAP.	22 μF	25V	M	
C6314	NCB11HK-104AY	CHIP CAP.	0.1 μF	50V	K	
C6315	QFV71HJ-104MZ	TF CAP.	0.1 μF	50V	J	
C6402	NCT03CH-680AY	CHIP CAP.	68 pF	1600V	H	
C6405	NCT03CH-680AY	CHIP CAP.	68 pF	1600V	H	
C6407	NCT03CH-680AY	CHIP CAP.	68 pF	1600V	H	
C6412	NCT03CH-101AY	CHIP CAP.	100 pF	1600V	H	
C6414	QEN61CM-106Z	BP E CAP.	10 μF	16V	M	
C6418	NCT03CH-101AY	CHIP CAP.	100 pF	1600V	H	
C6420	QEN61CM-106Z	BP E CAP.	10 μF	16V	M	
C6422	QFV71HJ-154MZ	TF CAP.	0.15 μF	50V	J	
C6423	NCT03CH-101AY	CHIP CAP.	100 pF	1600V	H	
C6424	QEN61CM-106Z	BP E CAP.	10 μF	16V	M	
C6502	QFLC1HJ-272MZ	M CAP.	2700 pF	50V	J	
C6503	NCS21HJ-391AY	CHIP C CAP.	390 pF	50V	J	
C6504	QFLC1HJ-682MZ	M CAP.	6800 pF	50V	J	
C6505	QEN61CM-106Z	BP E CAP.	10 μF	16V	M	
C6507	QFLC1HJ-272MZ	M CAP.	2700 pF	50V	J	
C6508	NCS21HJ-391AY	CHIP C CAP.	390 pF	50V	J	
C6509	QFLC1HJ-682MZ	M CAP.	6800 pF	50V	J	
C6514-15	QFLC1HJ-273MZ	M CAP.	0.027 μF	50V	J	
C6552	QFLC1HJ-272MZ	M CAP.	2700 pF	50V	J	
C6553	NCS21HJ-391AY	CHIP C CAP.	390 pF	50V	J	
C6554	QFLC1HJ-682MZ	M CAP.	6800 pF	50V	J	
C6555	QEN61CM-106Z	BP E CAP.	10 μF	16V	M	
C6557	QFLC1HJ-272MZ	M CAP.	2700 pF	50V	J	
C6558	NCS21HJ-391AY	CHIP C CAP.	390 pF	50V	J	
C6559	QFLC1HJ-682MZ	M CAP.	6800 pF	50V	J	
C6564-65	QFLC1HJ-273MZ	M CAP.	0.027 μF	50V	J	
C6602	NCB11HK-104AY	CHIP CAP.	0.1 μF	50V	K	
C6605	NCB11HK-104AY	CHIP CAP.	0.1 μF	50V	K	
C6607	NCB11HK-104AY	CHIP CAP.	0.1 μF	50V	K	
C6609-10	NCB11HK-104AY	CHIP CAP.	0.1 μF	50V	K	
C6901	NCB11HK-104AY	CHIP CAP.	0.1 μF	50V	K	
C6903	NCF11HZ-102AY	CHIP C CAP.	1000 pF	50V	Z	
TRANSFORMER						
T6201-02	CELT014-001	LOWPASS FILTER				
DIODE						
D6151-54	1SS133-T2	SI.DIODE				
D6155-56	RD7.5ES(B2)-T2	ZENER DIODE				
D6201-04	1SS133-T2	SI.DIODE				
D6301-06	1SS133-T2	SI.DIODE				
TRANSISTOR						
Q6121-25	2SC2412K(QR)-X	CHIP TRANSISTOR				
Q6301	2SK209(YG)-X	CHIP FET				
Q6303	2SC2412K(QR)-X	CHIP TRANSISTOR				
Q6304	2SA1037K(QR)-X	CHIP TRANSISTOR				
Q6305	2SK209(YG)-X	CHIP FET				

NV-55BX6(US&CA)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	TRANSISTOR				
	Q6451	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q6501-02	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q6503	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q6551-52	2SC2412K(QR)-X	CHIP TRANSISTOR		
	IC				
	IC6101	XRA15218F-W	I.C.		
	IC6121	MC14053BF-W	I.C(DIGI-MOS)		
	IC6181	M51523AL	I.C(MONO-ANA)		
	IC6201	XRA15218F-W	I.C.		
	IC6301	YM7306C	I.C(DIGI-OTHER)		
	IC6302	MSM51C464A-80R	IC(RAM)		
	IC6303	XRA15218F-W	I.C.		
	IC6304	M5238FP-W	I.C.(M)		
	IC6305	XRA15218F-W	I.C.		
	IC6401-02	M5238FP-W	I.C.(M)		
	IC6403-04	XRA15218F-W	I.C.		
	IC6451	MC14053BF-W	I.C(DIGI-MOS)		
	IC6501	M5238FP-W	I.C.(M)		
	IC6502	XRA15218F-W	I.C.		
	IC6551	M5238FP-W	I.C.(M)		
	IC6552	XRA15218F-W	I.C.		
	IC6601	TA78L005AP-Y	I.C.(H)		
	IC6901	SC403978B	I.C(MICRO-COMP)		
	IC6902	MN1280-Q	I.C(DIGI-MOS)		
	OTHERS				
	CF6301	CSA8.46MT	CER.RESONATOR		
	CF6901	CST4.00MGW	CER.RESONATOR		
	EF6601	CE42110-223Z	NOISE FILTER		

MI-COM PW BOARD ASS'Y (PA-7001A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
VARIABLE RESISTOR				
R7131	QVPE611-102HZ	V R	1kΩ B DET.OUT LEV	
RESISTOR				
R7001	QRD149J-150S	C R	15 Ω 1/4W J	
R7155	NRVA02D-1502NY	CHIP MF R	15kΩ 1/10W ±0.5%	
R7156	NRVA02D-1501NY	CHIP MF R	1.5kΩ 1/10W ±0.5%	
R7806	NRVA02D-1502NY	CHIP MF R	15kΩ 1/10W ±0.5%	
R7901	QRG039J-180	OM R	18 Ω 3W J	
R7903	QRG039J-820	OM R	82 Ω 3W J	
R7904	QRG019J-151S	OM R	150 Ω 1W J	
R7905	QRG029J-181	OM R	180 Ω 2W J	
R7906	QRG019J-681S	OM R	680 Ω 1W J	
CAPACITOR				
C7005	QFLC1HK-103MZ	M CAP.	0.01 μF 50V K	
C7009-12	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7014	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7053	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7101	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7104	NCB21HK-472AY	CHIP CAP.	4700 pF 50V K	
C7108	QFV71HJ-224MZ	TF CAP.	0.22 μF 50V J	
C7109-10	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7113	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7119	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C7125	NCT03CH-220AY	CHIP CAP.	22 pF 1600V H	
C7127	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7128	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	
C7133	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7139	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7140	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	
C7141	NCB21EK-683AY	CHIP CAP.	0.068 μF 25V K	
C7142	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7143	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7144	QEB61HM-104MZ	E CAP.	0.1 μF 50V M	
C7145	NCB21HK-332AY	CHIP CAP.	3300 pF 50V K	
C7146-47	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7153	QFV71HJ-104MZ	TF CAP.	0.1 μF 50V J	
C7154	QEN61HM-105Z	BP E CAP.	1 μF 50V M	
C7155	QEN61HM-475Z	BP E CAP.	4.7 μF 50V M	
C7156	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
C7157	QEB61HM-104MZ	E CAP.	0.1 μF 50V M	
C7158	QFLC1HK-473MZ	M CAP.	0.047 μF 50V K	
C7160	QFV71HJ-104MZ	TF CAP.	0.1 μF 50V J	
C7164	QEE61CK-335BZ	TAN.CAP.	3.3 μF 16V K	
C7165	QEE61CK-106BZ	TAN.CAP.	10 μF 16V K	
C7167-68	QEN61CM-106Z	BP E CAP.	10 μF 16V M	
C7203	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7204	NCT03CH-391AY	CHIP CAP.	390 pF 1600V H	
C7206	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7207	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7209	NCT03CH-390AY	CHIP CAP.	39 pF 1600V H	
C7213-14	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7215-16	QETC0JM-107Z	E CAP.	100 μF 6.3V M	
C7218	QETC0JM-107Z	E CAP.	100 μF 6.3V M	
C7221	NCT03CH-271AY	CHIP CAP.	270 pF 1600V H	
C7222	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7223	NCT03CH-151AY	CHIP CAP.	150 pF 1600V H	
C7224	NCT03CH-271AY	CHIP CAP.	270 pF 1600V H	
C7226	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7229	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C7231	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7233	QEN61HM-106Z	BP E CAP.	10 μF 50V M	
C7301-02	NCT03CH-330AY	CHIP CAP.	33 pF 1600V H	
C7303	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	

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⚠ Symbol No.	Part No.	Part Name	Description			Local
CAPACITOR						
C7309	QEN61HM-475Z	BP E CAP.	4.7μF	50V	M	
C7310	NCT03CH-100AY	CHIP CAP.	10pF	1600V	H	
C7321	QEN61CM-336Z	BP E CAP.	33μF	16V	M	
C7324-25	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	
C7602	NCB21EK-683AY	CHIP CAP.	0.068μF	25V	K	
C7607	NCB21EK-683AY	CHIP CAP.	0.068μF	25V	K	
C7701	NCB21HK-102AY	CHIP CAP.	1000pF	50V	K	
C7702	NCT03CH-471AY	CHIP CAP.	470pF	1600V	H	
C7703	NCB21HK-102AY	CHIP CAP.	1000pF	50V	K	
C7707	NCB21EK-683AY	CHIP CAP.	0.068μF	25V	K	
C7711	NCB21EK-683AY	CHIP CAP.	0.068μF	25V	K	
C7712	QEB61HM-104MZ	E CAP.	0.1μF	50V	M	
C7801-02	NCB21HK-332AY	CHIP CAP.	3300pF	50V	K	
C7803	NCB21HK-153AY	CHIP CAP.	0.015μF	50V	K	
C7804	QEN61HM-105Z	BP E CAP.	1μF	50V	M	
C7807	NCT03CH-470AY	CHIP CAP.	47pF	1600V	H	
C7808	NCF21HZ-104AY	CHIP C CAP.	0.1μF	50V	Z	
C7811	NCT03CH-101AY	CHIP CAP.	100pF	1600V	H	
C7813	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	
C7825-26	NCT03CH-220AY	CHIP CAP.	22pF	1600V	H	
C7827-30	NCT03CH-101AY	CHIP CAP.	100pF	1600V	H	
C7831	NCB21HK-332AY	CHIP CAP.	3300pF	50V	K	
C7907-08	NCF21HZ-104AY	CHIP C CAP.	0.1μF	50V	Z	
C7913	NCB21HK-102AY	CHIP CAP.	1000pF	50V	K	
C7919	NCB21HK-102AY	CHIP CAP.	1000pF	50V	K	
C7922	NCB21HK-102AY	CHIP CAP.	1000pF	50V	K	
TRANSFORMER						
T7111	CE40123-501	AFC TRANSFORMER				
T7115	CELT003-105	S.I.F.TRANSF				
T7116	CELT003-106	S.I.F.TRANSF.				
T7203	CE41360-001	DELAY LINE				
T7801	CE42470-001	OSC COIL				
COIL						
L7001	CELP026-150Z	PEAKING COIL	15μH			
L7102	CE41131-R47Y	CHIP INDUCTOR				
L7105	CE41131-R47Y	CHIP INDUCTOR				
L7106	CELP040-R56YL	CHIP P COIL				
L7109	CE41131-2R2Y	CHIP INDUCTOR				
L7121	CE41131-150Y	CHIP INDUCTOR				
L7202	CELP026-150Z	PEAKING COIL				
L7601-02	CELP026-4R7Z	PEAKING COIL	4.7μH			
L7701-02	CELP026-4R7Z	PEAKING COIL	4.7μH			
L7802-03	CELP026-2R2Z	PEAKING COIL	2.2μH			
DIODE						
D7001	MA3330(L)-X	CHIP ZENER DIODE				
D7201	MA152WK-X	CHIP DIODE				
D7204	1SS133	SI.DIODE				
D7301-02	MA152WK-X	CHIP DIODE				
D7601	MA3062(M)-X	CHIP ZENER DIODE				
D7602-03	MA152WK-X	CHIP DIODE				
D7604-07	MA3062(M)-X	CHIP ZENER DIODE				
D7706-10	MA3062(M)-X	CHIP ZENER DIODE				
D7712	MA152WK-X	CHIP DIODE				
D7713-14	MA3062(M)-X	CHIP ZENER DIODE				
D7851-52	MA152WK-X	CHIP DIODE				
D7901-02	MA152WK-X	CHIP DIODE				
D7903	S1WB(A)20	SI.DIODE				
D7904-07	MA152WK-X	CHIP DIODE				
TRANSISTOR						
Q7001-02	2SC2412K(QR)-X	CHIP TRANSISTOR				
Q7101	2SC5083(L-P)-T	SI.TRANSISTOR				
Q7103	2SA1037K(QR)-X	CHIP TRANSISTOR				

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⚠ Symbol No.	Part No.	Part Name	Description	Local
TRANSISTOR				
Q7105	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7201-04	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7206-07	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7208	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7211	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7212-16	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7217	DTC323TK-X	DIGI.TRANSISTOR		
Q7220	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7301	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7321	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7322-23	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7324-25	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7404	DTC124EKA-X	DIGI.TRANSISTOR		
Q7601	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7801	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7802-03	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7851-55	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7901	2SC1740S(QR)-T	SI.TRANSISTOR		
Q7902	2SC2412K(QR)-X	CHIP TRANSISTOR		
IC				
IC7101	LA7577N	I.C(MONO-ANA)		
IC7151	UPC1852ACT	I.C(MONO-ANA)		
IC7191	AN78L09-Y	I C		
IC7201	JCC1005	I.C(MONO-ANA)		
IC7202	M51494L	I.C(MONO-ANA)		
IC7301	LA7016	I.C(MONO-ANA)		
IC7302	MSM5256RS	I.C(DIGI-MOS)		
IC7303	TC4W66F-X	I.C(DIGI-MOS)		
IC7501	MC14053BF-W	I.C(DIGI-MOS)		
IC7601	MN1876466J7D2	I C		
IC7701	MN1876466J7C3	I C		
IC7702	MN1381-Q-Y	I.C(MONO-ANA)		
IC7704	AT24C16-55BX6	I.C(EP-ROM)		
IC7801	LC7458B-04	I.C(DIGI-OTHER)		
IC7802	LA7945N	I.C(MONO-ANA)		
IC7803	MN1381-Q-Y	I.C(MONO-ANA)		
IC7901	AN7812F	I.C(MONO-ANA)		
IC7903	AN7805F	I.C(MONO-ANA)		
IC7904	AN78L09-Y	I C		
IC7905	AN7805F	I.C(MONO-ANA)		
IC7906	AN78L05-Y	I.C.		
IC7907	AN7812F	I.C(MONO-ANA)		
OTHERS				
	CEMS009-064	IC SOCKET		
	CM46946-001	SHIELD PLATE		
	CEMS009-064	IC SOCKET		
	CM46946-001	SHIELD PLATE		
	CEMS007-008	IC SOCKET		
CF7001	FTP47.25MF	CERAMIC TRAP		
CF7102	CE41505-001	CERAMIC FILTER		
CF7106	SFSH4.5MCB	CERAMIC FILTER		
CF7601	CST8.00MTW	CER.RESONATOR		
CF7701	CST8.00MTW	CER.RESONATOR		
CF7801	FCR12.0M2S	C RESONATOR		
CN7001-02	CHA401N-25P-J	HQF CONNECTOR		
K7601-04	CE42050-001Z	CORE		
K7801-04	CE42050-001Z	CORE		
K7901-04	CE42050-001Z	CORE		
SF7101	CE41031-202	SAW FILTER		
SF7102	CE42399-201	SAW FILTER		
X7301	CE42510-001	CRYSTAL		

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CONVERGENCE PW BOARD ASS'Y (PA-8001A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
VARIABLE RESISTOR				
R8137	QVPC611-502HZ	V R	5kΩ B H-BLANKING PULSE PHASE CORRECTION	
R8427	QVPC611-502HZ	V R	5kΩ B GH KEY	
R8428	QVPC611-502HZ	V R	5kΩ B GH KEYS	
R8430	QVPC611-502HZ	V R	5kΩ B GH L-KEYS	
R8431	QVPC611-502HZ	V R	5kΩ B GH R-SIZE	
R8432	QVPC611-502HZ	V R	5kΩ B GH L-SIZE	
R8433	QVPC611-502HZ	V R	5kΩ B GH BOW	
R8434	QVPC611-502HZ	V R	5kΩ B GH R-PIN 1	
R8435	QVPC611-502HZ	V R	5kΩ B GH L-PIN 1	
R8436	QVPC611-502HZ	V R	5kΩ B GH R-LIN 2	
R8437	QVPC611-502HZ	V R	5kΩ B GH L-LIN 2	
R8441	QVPC611-502HZ	V R	5kΩ B GH PANORAMA R-SIZE	
R8442	QVPC611-502HZ	V R	5kΩ B GH PANORAMA L-SIZE	
R8443	QVPC611-502HZ	V R	5kΩ B GH CINEMA R-SIZE	
R8444	QVPC611-502HZ	V R	5kΩ B GH CINEMA L-SIZE	
R8445	QVPC611-502HZ	V R	5kΩ B GH R-PIN 2	
R8446	QVPC611-502HZ	V R	5kΩ B GH L-PIN 2	
R8447	QVPC611-502HZ	V R	5kΩ B GH CINEMA R-PIN	
R8448	QVPC611-502HZ	V R	5kΩ B GH CINEMA L-PIN	
R8476	QVPC611-502HZ	V R	5kΩ B GV KEY	
R8478	QVPC611-502HZ	V R	5kΩ B GV KEYS	
R8480	QVPC611-502HZ	V R	5kΩ B GV PIN	
R8481	QVPC611-502HZ	V R	5kΩ B GV UP-SIZE	
R8482	QVPC611-502HZ	V R	5kΩ B GV LOW-SIZE	
R8484	QVPC611-502HZ	V R	5kΩ B GV BOW	
R8489	QVPC611-502HZ	V R	5kΩ B GV VS-H3	
R8490	QVPC611-502HZ	V R	5kΩ B GV CINEMA 1 KEYS	
R8491	QVPC611-502HZ	V R	5kΩ B GV CINEMA 2 KEYS	
R8494	QVPC611-502HZ	V R	5kΩ B GV PANARAMA KEYS	
R8527	QVPC611-502HZ	V R	5kΩ B RH KEY	
R8528	QVPC611-502HZ	V R	5kΩ B RH KEYS	
R8530	QVPC611-502HZ	V R	5kΩ B RH L-KEYS	
R8531	QVPC611-502HZ	V R	5kΩ B RH R-SIZE	
R8532	QVPC611-502HZ	V R	5kΩ B RH L-SIZE	
R8533	QVPC611-502HZ	V R	5kΩ B RH BOW	
R8534	QVPC611-502HZ	V R	5kΩ B RH R-PIN 1	
R8535	QVPC611-502HZ	V R	5kΩ B RH L-PIN 1	
R8536	QVPC611-502HZ	V R	5kΩ B RH R-LIN 2	
R8537	QVPC611-502HZ	V R	5kΩ B RH L-LIN 2	
R8539	QVPC611-502HZ	V R	5kΩ B RH R-LIN 1	
R8540	QVPC611-502HZ	V R	5kΩ B RH L-LIN 1	
R8541	QVPC611-502HZ	V R	5kΩ B RH PANORAMA R-SIZE	
R8542	QVPC611-502HZ	V R	5kΩ B RH PANOMARA L-SIZE	
R8543	QVPC611-502HZ	V R	5kΩ B RH CINEMA R-SIZE	
R8544	QVPC611-502HZ	V R	5kΩ B RH CINEMA L-SIZE	
R8545	QVPC611-502HZ	V R	5kΩ B RH R-PIN 2	
R8546	QVPC611-502HZ	V R	5kΩ B RH L-PIN 2	
R8547	QVPC611-502HZ	V R	5kΩ B RH CINEMA R-PIN	
R8548	QVPC611-502HZ	V R	5kΩ B RH CINEMA L-PIN	
R8549	QVPC611-502HZ	V R	5kΩ B RH PANORAMA R-LIN 2	
R8550	QVPC611-502HZ	V R	5kΩ B RH PANORAMA L-LIN 2	
R8576	QVPC611-502HZ	V R	5kΩ B RV KEY	
R8578	QVPC611-502HZ	V R	5kΩ B RV KEYS	
R8579	QVPC611-502HZ	V R	5kΩ B RV PIN-B	
R8580	QVPC611-502HZ	V R	5kΩ B RV PIN	
R8581	QVPC611-502HZ	V R	5kΩ B RV UP-SIZE	
R8582	QVPC611-502HZ	V R	5kΩ B RV LOW-SIZE	
R8583	QVPC611-502HZ	V R	5kΩ B RV LIN	
R8584	QVPC611-502HZ	V R	5kΩ B RV BOW	
R8585	QVPC611-502HZ	V R	5kΩ B RV UP-KEYS	
R8586	QVPC611-502HZ	V R	5kΩ B RV L-KEYS	
R8587	QVPC611-502HZ	V R	5kΩ B RV L-UP-KEY	

⚠ Symbol No.	Part No.	Part Name	Description	Local
VARIABLE RESISTOR				
R8590	QVPC611-502HZ	V R	5kΩ B RV CINEMA 1 KEYS	
R8591	QVPC611-502HZ	V R	5kΩ B RV CINEMA 2 KEYS	
R8592	QVPC611-502HZ	V R	5kΩ B RV CINEMA UP-SIZE	
R8593	QVPC611-502HZ	V R	5kΩ B RV CINEMA LOW-SIZE	
R8594	QVPC611-502HZ	V R	5kΩ B RV PANORAMA KEYS	
R8595	QVPC611-502HZ	V R	5kΩ B RV V3	
R8627	QVPC611-502HZ	V R	5kΩ B BH KEY	
R8628	QVPC611-502HZ	V R	5kΩ B BH KEYS	
R8630	QVPC611-502HZ	V R	5kΩ B BH L-KEYS	
R8631	QVPC611-502HZ	V R	5kΩ B BH R-SIZE	
R8632	QVPC611-502HZ	V R	5kΩ B BH L-SIZE	
R8633	QVPC611-502HZ	V R	5kΩ B BH BOW	
R8634	QVPC611-502HZ	V R	5kΩ B BH R-PIN 1	
R8635	QVPC611-502HZ	V R	5kΩ B BH L-PIN 1	
R8636	QVPC611-502HZ	V R	5kΩ B BH R-LIN 2	
R8637	QVPC611-502HZ	V R	5kΩ B BH L-LIN 2	
R8639	QVPC611-502HZ	V R	5kΩ B BH R-LIN 1	
R8640	QVPC611-502HZ	V R	5kΩ B BH L-LIN 1	
R8641	QVPC611-502HZ	V R	5kΩ B BH PANORAMA R-SIZE	
R8642	QVPC611-502HZ	V R	5kΩ B BH PANORAMA L-SIZE	
R8643	QVPC611-502HZ	V R	5kΩ B BH CINEMA R-SIZE	
R8644	QVPC611-502HZ	V R	5kΩ B BH CINEMA L-SIZE	
R8645	QVPC611-502HZ	V R	5kΩ B BH R-PIN 2	
R8646	QVPC611-502HZ	V R	5kΩ B BH L-PIN 2	
R8647	QVPC611-502HZ	V R	5kΩ B BH CINEMA R-PIN	
R8648	QVPC611-502HZ	V R	5kΩ B BH CINEMA L-PIN	
R8649	QVPC611-502HZ	V R	5kΩ B BH PANORAMA R-LIN 2	
R8650	QVPC611-502HZ	V R	5kΩ B BH PANORAMA L-LIN 2	
R8676	QVPC611-502HZ	V R	5kΩ B BV KEY	
R8678	QVPC611-502HZ	V R	5kΩ B BV KEYS	
R8679	QVPC611-502HZ	V R	5kΩ B BV PIN-B	
R8680	QVPC611-502HZ	V R	5kΩ B BV PIN	
R8681	QVPC611-502HZ	V R	5kΩ B BV UP-SIZE	
R8682	QVPC611-502HZ	V R	5kΩ B BV LOW-SIZE	
R8683	QVPC611-502HZ	V R	5kΩ B BV LIN	
R8684	QVPC611-502HZ	V R	5kΩ B BV BOW	
R8685	QVPC611-502HZ	V R	5kΩ B BV UP-KEYS	
R8686	QVPC611-502HZ	V R	5kΩ B BV L-KEYS	
R8687	QVPC611-502HZ	V R	5kΩ B BV L-UP-KEY	
R8689	QVPC611-502HZ	V R	5kΩ B BV VS-H3	
R8690	QVPC611-502HZ	V R	5kΩ B BV CINEMA 1 KEYS	
R8691	QVPC611-502HZ	V R	5kΩ B BV CINEMA 2 KEYS	
R8692	QVPC611-502HZ	V R	5kΩ B BV CINEMA UP-SIZE	
R8693	QVPC611-502HZ	V R	5kΩ B BV CINEMA LOW-SIZE	
R8694	QVPC611-502HZ	V R	5kΩ B BV PANORAMA KEYS	
R8695	QVPC611-502HZ	V R	5kΩ B BV V3	
R8727	QVPC611-203HZ	V R	20kΩ B GH STATIC	
R8728	QVPC611-203HZ	V R	20kΩ B GV STATIC	
R8771	QVPC611-203HZ	V R	20kΩ B RH STATIC	
R8776	QVPC611-203HZ	V R	20kΩ B RV STATIC	
R8781	QVPC611-203HZ	V R	20kΩ B BH STATIC	
R8786	QVPC611-203HZ	V R	20kΩ B BV STATIC	
RESISTOR				
R8805	QRG039J-221A	OM R	220 Ω 3W J	
R8806-07	QRX039J-3R3A	MF R	3.3 Ω 3W J	
R8815	QRG039J-221A	OM R	220 Ω 3W J	
R8816-17	QRX039J-3R3A	MF R	3.3 Ω 3W J	
R8825	QRG039J-221A	OM R	220 Ω 3W J	
R8826-27	QRX039J-3R3A	MF R	3.3 Ω 3W J	
R8835	QRG039J-221A	OM R	220 Ω 3W J	
R8836-37	QRX039J-3R3A	MF R	3.3 Ω 3W J	
R8845	QRG039J-121A	OM R	120 Ω 3W J	
R8846	QRX039J-3R9A	MF R	3.9 Ω 3W J	
R8847	QRX039J-3R3A	MF R	3.3 Ω 3W J	

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⚠ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R8855	QRG039J-221A	OM R	220 Ω 3W J	
R8856-57	QRX039J-3R3A	MF R	3.3 Ω 3W J	
CAPACITOR				
C8102	QFLC1HJ-102MZ	M CAP.	1000 p F 50V J	
C8103	QEN61HM-335Z	BP E CAP.	3.3 μ F 50V M	
C8104	QFV71HJ-224MZ	TF CAP.	0.22 μ F 50V J	
C8106	QEN61CM-106Z	BP E CAP.	10 μ F 16V M	
C8108	QEN61HM-105Z	BP E CAP.	1 μ F 50V M	
C8115	QEN61CM-106Z	BP E CAP.	10 μ F 16V M	
C8117	QFV71HJ-105MZ	TF CAP.	1 μ F 50V J	
C8118	QFLC1HJ-152MZ	M CAP.	1500 p F 50V J	
C8119	QEN61HM-225Z	BP E CAP.	2.2 μ F 50V M	
C8121	QFLC1HJ-821MZ	M CAP.	820 p F 50V J	
C8122	QFV71HJ-104MZ	TF CAP.	0.1 μ F 50V J	
C8123	QFV71HJ-124MZ	TF CAP.	0.12 μ F 50V J	
C8140	NCT03CH-221AY	CHIP CAP.	220 p F 1600V H	
C8142	QFP31HJ-272SZ	PP CAP.	2700 p F 50V J	
C8143	QFLC1HJ-272MZ	M CAP.	2700 p F 50V J	
C8145	QFLC1HJ-123MZ	M CAP.	0.012 μ F 50V J	
C8150	QFLC1HJ-122MZ	M CAP.	1200 p F 50V J	
C8156	QFP31HJ-392SZ	PP CAP.	3900 p F 50V J	
C8251-52	NCT03CH-681AY	CHIP CAP.	680 p F 1600V H	
C8303	QEN61CM-106Z	BP E CAP.	10 μ F 16V M	
C8309-10	QEN61CM-106Z	BP E CAP.	10 μ F 16V M	
C8701-04	NCT03CH-470AY	CHIP CAP.	47 p F 1600V H	
C8707-10	NCT03CH-100AY	CHIP CAP.	10 p F 1600V H	
C8721-24	NCT03CH-470AY	CHIP CAP.	47 p F 1600V H	
C8725-26	NCT03CH-100AY	CHIP CAP.	10 p F 1600V H	
C8728-29	NCT03CH-100AY	CHIP CAP.	10 p F 1600V H	
C8731-34	NCT03CH-470AY	CHIP CAP.	47 p F 1600V H	
C8735-36	NCT03CH-100AY	CHIP CAP.	10 p F 1600V H	
C8738-39	NCT03CH-100AY	CHIP CAP.	10 p F 1600V H	
C8771-74	QFLC1HJ-333MZ	M CAP.	0.033 μ F 50V J	
C8802	QEHC1HM-476MZ	E CAP.	47 μ F 50V M	
C8804	QEHC1HM-476MZ	E CAP.	47 μ F 50V M	
C8805	QEHC1VM-476MZ	E CAP.	47 μ F 35V M	
C8806	NCS21HJ-221AY	CHIP C CAP.	220 p F 50V J	
C8812	QEHC1HM-476MZ	E CAP.	47 μ F 50V M	
C8814	QEHC1HM-476MZ	E CAP.	47 μ F 50V M	
C8815	QEHC1VM-476MZ	E CAP.	47 μ F 35V M	
C8816	NCS21HJ-221AY	CHIP C CAP.	220 p F 50V J	
C8822	QEHC1HM-476MZ	E CAP.	47 μ F 50V M	
C8824	QEHC1HM-476MZ	E CAP.	47 μ F 50V M	
C8825	QEHC1VM-476MZ	E CAP.	47 μ F 35V M	
C8826	NCS21HJ-221AY	CHIP C CAP.	220 p F 50V J	
⚠ C8901	QETC1VM-227Z	E CAP.	220 μ F 35V M	
⚠ C8902	QETC1VM-227Z	E CAP.	220 μ F 35V M	
⚠ C8903	QETC1HM-105Z	E CAP.	1 μ F 50V M	
⚠ C8906	QETC1VM-227Z	E CAP.	220 μ F 35V M	
⚠ C8907	QETC1VM-227Z	E CAP.	220 μ F 35V M	
⚠ C8912	QETC1HM-475Z	E CAP.	4.7 μ F 50V M	
⚠ C8913	QETC1HM-475Z	E CAP.	4.7 μ F 50V M	
COIL				
L8901-04	CELC048-470Z	CHOKE COIL	47 μ H	
DIODE				
D8251-52	RD8.2ES(B1)-T2	ZENER DIODE		
D8253	MA151WA-X	SI.DIODE		
D8255	MA152WK-X	CHIP DIODE		
D8301	MA152WK-X	CHIP DIODE		
D8305	MA151WA-X	SI.DIODE		
D8307	MA152WK-X	CHIP DIODE		
D8311	MA151WA-X	SI.DIODE		
D8313	MA152WK-X	CHIP DIODE		

NV-55BX6(US&CA) /NV-55BH6(US)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	DIODE				
	D8315	MA151WA-X	SI.DIODE		
	D8317	MA152WK-X	CHIP DIODE		
	D8321	MA151WA-X	SI.DIODE		
	D8323	MA152WK-X	CHIP DIODE		
	D8325	MA151WA-X	SI.DIODE		
	D8326-27	MA152WK-X	CHIP DIODE		
	D8328	MA151WA-X	SI.DIODE		
	D8802-05	RD33E(B1)-T2	ZENER DIODE		
	D8812-15	RD33E(B1)-T2	ZENER DIODE		
	D8822-25	RD33E(B1)-T2	ZENER DIODE		
	D8901-05	MA3150(M)-X	ZENER DIODE		
	TRANSISTOR				
	Q8101	2SC2412K(QR)-X	CHIP TRANSISTOR		
⚠	Q8901	2SD1276A(QP)	SI.TRANSISTOR		
⚠	Q8902	2SB950A(QP)	SI.TRANSISTOR		
	IC				
	IC8101	PA0036	I.C(MONO-ANA)		
	IC8103-04	TC4538BP	I.C(DIGI-MOS)		
	IC8201-02	BA15218N	I.C.(M)		
	IC8204	BA15218N	I.C.(M)		
	IC8253-55	MC14052BCP	I.C(DIGI-MOS)		
	IC8301-03	BA15218N	I.C.(M)		
	IC8304-05	MC14052BCP	I.C(DIGI-MOS)		
	IC8701-11	BA15218N	I.C.(M)		
	IC8801-03	STK4274	I.C(HYBRID)		
⚠	IC8901	M5230L	I.C(MONO-ANA)		
⚠	IC8902	NJM7812FA	I.C(MONO-ANA)		
⚠	IC8903	NJM7912FA	I.C(MONO-ANA)		
	IC8904	NJM7805FA	I.C(MONO-ANA)		
	IC8905	NJM7905FA	I.C(MONO-ANA)		
	OTHERS				
	S8101	QSL4A13-C03Z	LEVER SWITCH	BLK SW	

POWER PW BOARD ASS'Y (PA-9001A-H1)

⚠	Symbol No.	Part No.	Part Name	Description			Local
	RESISTOR						
	R9002	QRZ0111-275U	C R	2.7MΩ			
	R9101	QRF154K-1R0	UNF R	1 Ω	15W	K	
	R9104	QRG039J-103	OM R	10kΩ	3W	J	
⚠	R9105	QRD121J-3R9SY	C R				
	R9106	QRD123J-122SX	C R	1.2kΩ	1/2W	J	
	R9109	QRM059K-R10	MP R				
	R9201	QRG019J-223S	OM R	22kΩ	1W	J	
⚠	R9203	QRD149J-101S	C R	100 Ω	1/4W	J	
	R9210	QRG029J-151A	OM R	150 Ω	2W	J	
	CAPACITOR						
	C9001-02	QFZ9036-224M	M F CAP.	0.22 μFAC250V		M	
	C9003-04	QCZ9033-222A	C CAP.	0.022 μFAC250V		M	
	C9005	QFZ9036-104M	M.F.CAP.	0.1 μF			
⚠	C9101	QFZ9036-104M	M.F.CAP.	0.1 μF			
⚠	C9102	QFZ9036-104M	M.F.CAP.	0.1 μF			
⚠	C9103	QCZ9033-222A	C CAP.	0.022 μF			
⚠	C9104	QCZ9033-222A	C CAP.	0.022 μF			
	C9105	QFH52EK-103M	MM CAP.	0.01 μF	250V	K	
⚠	C9106	QEZ0110-108R	E CAP.	1000 μF			
	C9109	QCZ0131-332A	C CAP.	3300 pF			
	C9110	QETC1VM-476Z	E CAP.	47 μF	35V	M	
⚠	C9112	QCZ9033-472A	C CAP.	0.047 μF			
	C9113	QCZ0131-332A	C CAP.	3300 pF			
⚠	C9202	QETB1VM-108	E CAP.	1000 μF	35V	M	
⚠	C9203	QETB1VM-338	E CAP.	3300 μF	35V	M	
⚠	C9205	QEHB1EM-478M	E CAP.	4700 μF	25V	M	
⚠	C9206	QETC1EM-477Z	E CAP.	470 μF	25V	M	
⚠	C9208	QEHB1HM-477M	E CAP.	470 μF	50V	M	
⚠	C9209	QETC1HM-107Z	E CAP.	100 μF	50V	M	
⚠	C9211	QEHB1HM-477M	E CAP.	470 μF	50V	M	
⚠	C9212	QETC1HM-107Z	E CAP.	100 μF	50V	M	
⚠	C9214	QEH72CM-337M	E CAP.	330 μF	160V	M	
⚠	C9215	QETB2CM-227	E CAP.	220 μF	160V	M	
⚠	C9217	QCZ9033-472A	C CAP.	4700 pF			
⚠	C9218	QCZ9033-222A	C CAP.	2200 pF			
	C9231	QEN61VM-475Z	BP E CAP.	4.7 μF	35V	M	
	C9914	QETC1VM-476Z	E CAP.	47 μF	35V	M	
	TRANSFORMER						
	T9101	CE41993-001	POWER TRANSF.				
	T9102	CETS018-001J2	SW TRANSF				
	COIL						
	L9201-05	CELC021-470	CHOKE COIL	47 μH			
	DIODE						
	D9001	1SS133-T2	SI.DIODE				
	D9101	RBV-406M	BRIDGE DIODE				
	D9102-03	EU2A-LFF6	SI.DIODE				
⚠	D9201	D5S9M	SI.DIODE				
⚠	D9202	D4L20U	SI.DIODE				
⚠	D9203	D4L20U	SI.DIODE				
⚠	D9204	D4L20U	SI.DIODE				
⚠	D9205	D5L60	SI.DIODE				
	D9210-15	1SS133-T2	SI.DIODE				
	TRANSISTOR						
	Q9201	2SA1309A(QR)-T	SI.TRANSISTOR				
	Q9202	2SC2229(Y)-T	SI.TRANSISTOR				
	Q9203	2SC3311A(QR)-T	SI.TRANSISTOR				
	I C						
	IC9101	STK711-550	I.C(HYBRID)				
	IC9102	TLP621(B)	I.C(PH.COUPLER)				
⚠	IC9201	SE130N	I.C(H)				

NV-55BX6(US&CA)

⚠ Symbol No.	Part No.	Part Name	Description	Local
OTHERS				
	CEMG002-001Z	FUSE CLIP		
⚠ F9001	QMF51U1-8R0S	FUSE		
K9201-02	CE41724-00A	BEADS CORE		
K9203-04	CE42050-001Z	CORE		
LF9001	CE41775-006	LINE FILTER		
LF9101	CE41775-006	LINE FILTER		
RY9001	CESK006-005	RELAY		
VA9001	ERZ-C10VK361G	VARISTOR		

3D Y/C SEP.MODULE (PA-0Y001A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
	PA-0Y001A-H1	3D Y/C SEP.MODULE		

PIP1 MODULE PW BOARD ASS'Y (PA-0P002A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
	PA-0P002A-H1	PIP1 MODULE		

PIP2 MODULE PW BOARD ASS'Y (PA-0P003A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
	PA-0P003A-H1	PIP2 MODULE		

M1 EXPLODED VIEW PARTS LIST

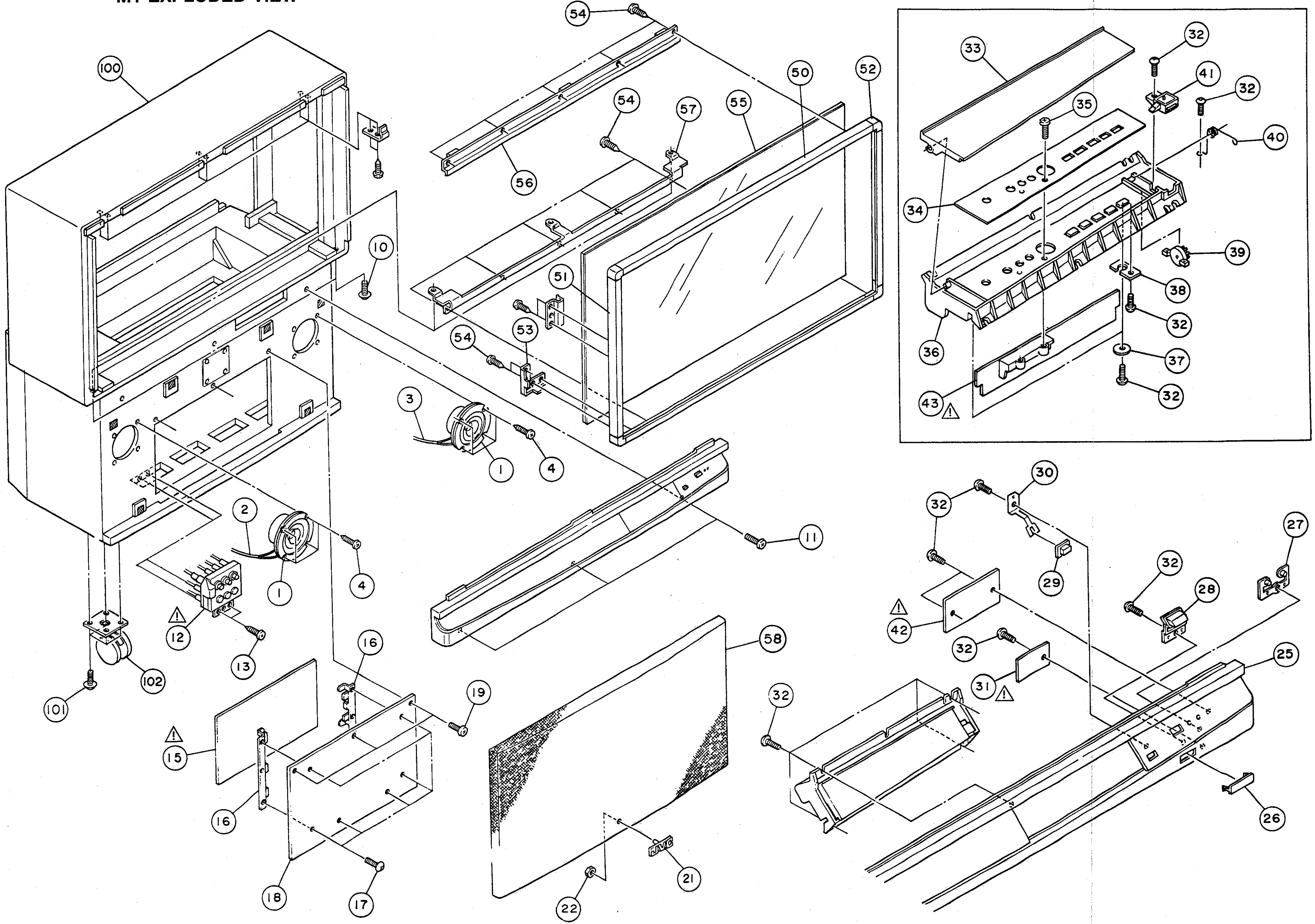
⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	FF166-95T	SPEAKER	×2	
	2	CHGS0015-AD-G	SP WIRE ASSY		
	3	CHGS0015-AE-G	SP WIRE ASSY		
	4	SDSA4015Z	BIND HEAD SCREW	×8	*
	10	GBSA4018M	TAP SCREW	×2	*
	11	GBSA4018M	TAP SCREW	×3	*
⚠	12	CE42542-001	FOCUS PACK ASSY		
	13	SDSA3516M	TAP SCREW	×2	*
⚠	15	------------	CONVER PWB ASSY	PA-8001A-H1	
	16	------------	CONVER FRAME	×3,CM35709-001-A	*
	17	SBSB4012Z	TAPPING SCREW	×6	*
	18	CN30252-C01-A	FRONT BOARD		*
	19	GBSA4018M	TAP SCREW	×3	*
	21	CM47752-001	BRAND MARK		
	22	NNS3000Z	NUT		*
	25	CM12389-002-VA	CONTROL PANEL		*
	26	CM35674-001	RM WINDOW		
	27	CM35666-A01-H	LED LENS		*
	28	CM35667-001-A	PW KNOB		*
	29	CM46014-A01	KNOB		
	30	CM47717-001-A	KNOB SPRING		*
⚠	31	------------	REMO.CON.PWB	PA-4004A-H1	
	32	SBSB4012Z	TAPPING SCREW	×14	*
	33	CM22625-A01-VA	DOOR		*
	34	CM36166-001-H	CONTROL SHEET		*
	35	SDSB3010M	TAPPING SCREW		*
	36	CM12391-C01-VA	CONTROL BASE		*
	37	Q03091-115	WASHER	×2	
	38	CM47727-001-A	DAMMPER HOLDER		*
	39	CM46031-00C	DAMPER		
	40	CM47716-002	DOOR SPRING		
	41	CM33984-00A	LOCK UNIT		
⚠	42	------------	LED PWB ASSY	PA-4003A-H1	
⚠	43	------------	FRONT CONTROL PWB	PA-4001A-H1	
	50	CM35704-001	SCR.PANEL(T,B)	×2	
	51	CM35704-002	SCR.PANEL(R,L)	×2	
	52	CM35705-001	CORNER BLOCK	×4	
	53	CM35706-001	CORNER BKT	×4	
	54	SDSA4015Z	BIND HEAD SCREW	×26	*
	55	CM35802-00A	SCREEN ASSY		*
	56	CM12404-00A	S CLAMPER T		*
	57	CM12405-00A	S CLAMPER B		*
	58	CN20338-B0A-A	SP GRILLE		
	100	CN10360-00B-A	WOOD CABI ASSY	Inc.No.101～102	
	101	GBSA4018M	SCREW	×16	
	102	CM35707-00A-A	CASTER	×4	*

M2 EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	1	-------------	POWER PWB ASSY	PA-9002A-H1	
	2	GBSA4018M	TAP SCREW		*
⚠	3	CJ39914-A0A	HV DIVIDER		
	4	GBSB3008Z	TAPPING SCREW	×2	*
	5	CM47113-001	HVD SUPPORT		
	6	SDSA4015Z	BIND HEAD SCREW	×2	*
⚠	7	CM43198-003	UL CAUTION		
⚠	10	-------------	AUDIO PWB ASSY	PA-6002A-H1	
	13	CEEM245-A06	TUNER	TU7001	*
	14	CEX40725	RF SWITCH		*
	15	SBSB4012Z	TAPPING SCREW		*
⚠	16	-------------	2D Y/C SEP.MODULE	PA-0Y002A-H1	
⚠	17	-------------	MI-CON PWB	PA-7002A-H1	
⚠	18	-------------	VIDEO/CHROMA PWB	PA-1002A-H1	
⚠	19	-------------	DEF.PWB ASSY	PA-2001A-H1	
⚠	20	-------------	ASPECT PWB ASSY	PA-0A001A-H1	
⚠	21	-------------	PIP1 PWB ASSY	PA-0P001A-H1	
⚠	23	-------------	AV TERMINAL PWB	PA-1202A-H1	
	24	CM12648-A01-V0	AV BOARD		
	25	CM22865-002-H	TERMINAL SHEET		
	26	GBSA4018M	TAP SCREW		*
⚠	27	-------------	DINAMIC FOCUS PWB	PA-0D001A-H1	
	28	CM12402-C01-V0	MAIN BASE		
	29	GBSA4018M	TAP SCREW		*
	30	CM35828-A01	D.F.INSULATOR		
⚠	31	CE42541-002	FBT	T2602	
	37	CM35909-001-A	HV WARNING		*
	38	-------------	X-RAY SHIELD	×2,CM35880-A01-A	*
	39	CM35699-002-A	UNIT BEAM	CM35699-002-A	*
	40	-------------	UNIT BEAM 1	CM35699-001-A	*
	41	-------------	HANGER	CM35701-A01-A	*
	42	-------------	HANGER	CM35701-A02-A	*
	43	-------------	SHADING BKT	CM35702-001-A	*
	44	CM35838-001-A	WARNING LABEL		*
	45	STSA5025W	TAP SCREW	×6	*
	46	CM35744-00A-A	LENS ASSY	×3	*
	47	CM47771-001-A	TAP SCREW	×12	*
⚠	48	CM35743-00A-A	R COUPLER ASSY		*
⚠	49	CM35743-00B-A	G COUPLER ASSY		*
⚠	50	CM35743-00C-A	B COUPLER ASSY		*
⚠	51	A75034-B	P.C.MAGNET	×3	
⚠	52	CE20251-00A	DEF YOKE	×3	*
	53	GBSB4016Z	TAPPING SCREW	×12	*
⚠	55	-------------	CRT SOCKET PWB	PA-3001A-H1(×3)	
	60	CM35703-001	MIRROR HOLDER		*
	61	SBSB4012Z	TAPPING SCREW	×3	*
	62	CM35696-001-A	MIRROR		*
	63	CM12401-B01-A	REAR COVER		*
	64	GBSA4018M	TAP SCREW	×11	*
	65	CN20339-002-A	BACK BOARD		*
	66	GBSA4018M	TAP SCREW	×10	*
	67	CM30456-003-A	WIRE CLAMP		*
	68	SDSA3516M	TAP SCREW		*
⚠	69	QMP14E0-250R	POWER CORD		
	70	CM44889-A04-A	RATING LABEL		*
⚠	71	CM48081-001-A	UL WARNING		*

M1 EXPLODED VIEW

NV-55BH6(US)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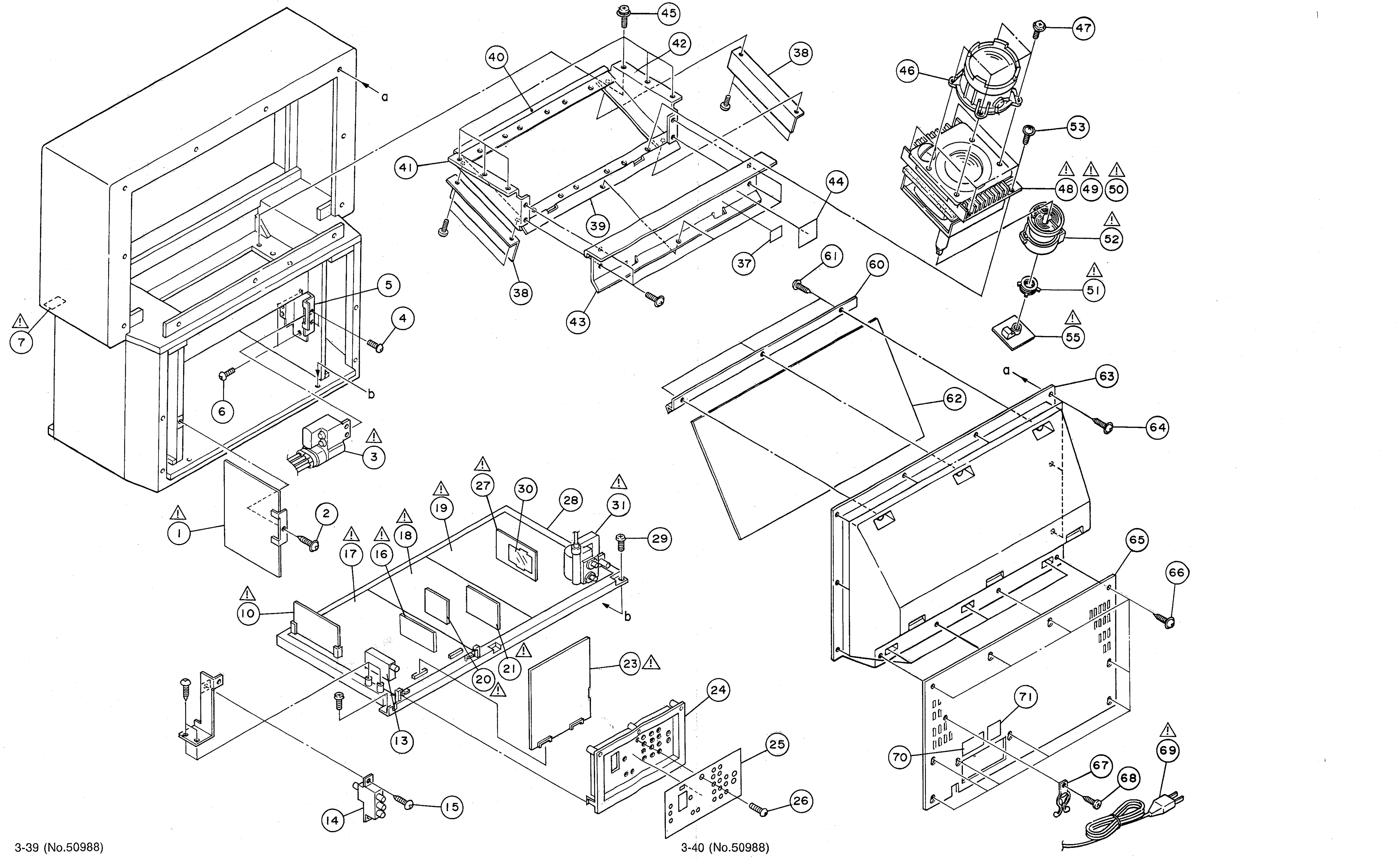
M2 EXPLODED VIEW

NV-55BH6(US)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PRINTED WIRING BOARD PARTS LIST

VIDEO/CHROMA PW BOARD ASS'Y (PA-1002A-H1)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	VARIABLE RESISTOR				
	R1136	QVPE611-502HZ	V R	5kΩ B Y CUT OFF	
	R1139	QVPE611-502HZ	V R	5kΩ B R-Y CUT OFF	
	RESISTOR				
⚠	R1001	QRG039J-390A	OM R	39 Ω 3W J	
	R1002	QRX039J-2R7A	MF R	2.7 Ω 3W J	
	R1003	QRD123J-271SX	C R	270 Ω 1/2W J	
	R1004	QRD123J-100SX	C R	10 Ω 1/2W J	
	R1005	QRG039J-220	OM R	22 Ω 3W J	
	R1408	QRD123J-121SX	C R	120 Ω 1/2W J	
	CAPACITOR				
⚠	C1001	QETC1EM-107Z	E CAP.	100 µF 25V M	
⚠	C1003	QETC1EM-107Z	E CAP.	100 µF 25V M	
⚠	C1007	QETC1EM-107Z	E CAP.	100 µF 25V M	
	C1101-03	QEN61CM-106Z	BP E CAP.	10 µF 16V M	
	C1108-09	QEN61CM-106Z	BP E CAP.	10 µF 16V M	
	C1111	QEN61HM-105Z	BP E CAP.	1 µF 50V M	
	C1113	QEN61HM-105Z	BP E CAP.	1 µF 50V M	
	C1121	NCT03CH-180AY	CHIP CAP.	18 pF 1600V H	
	C1124	NCT03CH-390AY	CHIP CAP.	39 pF 1600V H	
	C1302-03	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
	C1304	QETC0JM-477Z	E CAP.	470 µF 6.3V M	
	C1311	QEN61CM-336Z	BP E CAP.	33 µF 16V M	
	C1326-28	QEN61HM-105Z	BP E CAP.	1 µF 50V M	
	C1362	NCT03CH-180AY	CHIP CAP.	18 pF 1600V H	
	C1363	NCB21HK-223AY	CHIP CAP.	0.022 µF 50V K	
	C1364	QEN61HM-335Z	BP E CAP.	3.3 µF 50V M	
	C1365	NCB21HK-223AY	CHIP CAP.	0.022 µF 50V K	
	C1366	NCT03CH-7R0AY	CHIP CAP.	7 pF 1600V H	
	C1367-68	QEN61HM-105Z	BP E CAP.	1 µF 50V M	
	C1372	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
	C1401	NCS21HJ-221AY	CHIP C CAP.	220 pF 50V J	
	C1402	QFLC1HK-223MZ	M CAP.	0.022 µF 50V K	
	C1409	QFV71HJ-394MZ	TF CAP.	0.39 µF 50V J	
	C1410	QFV71HJ-334MZ	TF CAP.	0.33 µF 50V J	
	C1412	QFLC1HK-333MZ	M CAP.	0.033 µF 50V K	
	C1415	NCB21EK-683AY	CHIP CAP.	0.068 µF 25V K	
	C1416	NCB21HK-682AY	CHIP CAP.	6800 pF 50V K	
	C1417	NCB21HK-223AY	CHIP CAP.	0.022 µF 50V K	
	C1419	NCS21HJ-121AY	CHIP C CAP.	120 pF 50V J	
	C1420	NCT03CH-220AY	CHIP CAP.	22 pF 1600V H	
	C1421	NCB21EK-563AY	CHIP CAP.	0.056 µF 25V K	
	C1501	NCT03CH-7R0AY	CHIP CAP.	7 pF 1600V H	
	C1502	QEN61CM-106Z	BP E CAP.	10 µF 16V M	
	C1503	NCT03CH-7R0AY	CHIP CAP.	7 pF 1600V H	
	C1504	QEN61CM-106Z	BP E CAP.	10 µF 16V M	
	C1505	NCT03CH-7R0AY	CHIP CAP.	7 pF 1600V H	
	C1506	QEN61CM-106Z	BP E CAP.	10 µF 16V M	
	C1601	NCT03CH-680AY	CHIP CAP.	68 pF 1600V H	
	C1702	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
	C1712	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
	C1713	QEN61CM-336Z	BP E CAP.	33 µF 16V M	
	C1714	QETC1HM-105Z	E CAP.	1 µF 50V M	
	DIODE				
	D1101	RD5.1E(B2)-T2	ZENER DIODE		
	D1102-03	M1MA151A-X	CHIP DIODE		
	D1301-02	MA3056-X	ZENER DIODE		
	D1308	1SS133-T2	SI.DIODE		
	D1309	1SS133	SI.DIODE		
	D1311	RD12ES(B3)-T2	ZENER DIODE		
	D1312-13	M1MA151A-X	CHIP DIODE		
	D1314	RD10ES(B3)-T2	ZENER DIODE		
	D1315-16	M1MA151A-X	CHIP DIODE		

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⚠	Symbol No.	Part No.	Part Name	Description	Local
	DIODE				
	D1317	MA3051-X	ZENER DIODE		
	D1401	MA3062-X	CHIP ZENER DIODE		
	D1403	MA3051-X	ZENER DIODE		
	D1404	RD5.1ES(B1)-T2	ZENER DIODE		
	D1501	M1MA151A-X	CHIP DIODE		
	D1502	MA152WK-X	CHIP DIODE		
	D1505	M1MA151A-X	CHIP DIODE		
	D1506-08	MA3039(H)-X	ZENER DIODE		
	D1601-09	MA165-T2	SI.DIODE		
	D1701-05	M1MA151A-X	CHIP DIODE		
	D1801	M1MA151A-X	CHIP DIODE		
	TRANSISTOR				
	Q1101-07	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1108	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1109-11	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1311	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1312-13	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1314-15	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1319	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1320	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1323	2SC3311A(QR)-T	SI.TRANSISTOR		
	Q1361-62	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1363	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1402	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1404-06	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1407	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1408	DTC144WKA-X	DIGI TRANSISTOR		
	Q1409-10	DTC124EKA-X	DIGI TRANSISTOR		
	Q1411	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1412	2SA1309A(QR)	SI TRANSISTOR		
	Q1501-03	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1507	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1508	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1509	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1510	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1511	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1512	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1513	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1515-19	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1521-22	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1603-04	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1605	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1701-04	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1706	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1711	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1801-03	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1804	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1805	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1806	2SA1037K(QR)-X	CHIP TRANSISTOR		
	Q1807-08	2SC2412K(QR)-X	CHIP TRANSISTOR		
	Q1813	2SC2412K(QR)-X	CHIP TRANSISTOR		
	IC				
⚠	IC1001	AN7812F	I.C(MONO-ANA)		
⚠	IC1002	AN7809F	I.C.		
	IC1003	AN7805F	I.C(MONO-ANA)		
⚠	IC1004	AN7812F	I.C(MONO-ANA)		
	IC1101	AN5867K-A	I.C.		
	IC1301	JCC1007	I.C(MONO-ANA)		
	IC1501	CX20100	I C		
	IC1702	BA7655AF-X	I C		
	OTHERS				
	CF1401	CSB503F39	CER.RESONATOR		
	X1361	CE41651-001Z	X-TAL		

ASPECT PW BOARD ASS'Y (PA-0A001A-H1)

Please refer to page 3-13

DINAMIC FOCUS PW BOARD ASS'Y (PA-0D001A-H1)

Please refer to page 3-14

AV TERMINAL PW BOARD ASS'Y (PA-1202A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R1125	QRG019J-220S	OM R	22 Ω 1W J	
R1178	QRD129J-151S	C R	150 Ω 1/2W J	
CAPACITOR				
C1101-06	NCS21HJ-101AY	CHIP CAP.	100 Ω 50V J	
C1107-10	NCS21HJ-271AY	CHIP C CAP.	100 Ω 50V J	
C1125	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C1130	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C1135	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C1138	QEN61CM-336Z	BP E CAP.	33 µF 16V M	
C1139-41	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C1161-62	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C1173	NCT03CH-150AY	CHIP CAP.	15 pF 1600V H	
DIODE				
D1101-09	MA3120-X	ZENER DIODE		
D1110	RD9.1E(B2)-T5	ZENER DIODE		
D1117-28	MA3120-X	ZENER DIODE		
D1201-04	MA3120-X	ZENER DIODE		
D1301-04	MA3120-X	ZENER DIODE		
D1401-02	M1MA151A-X	CHIP DIODE		
D1404-07	M1MA151A-X	CHIP DIODE		
D1501-04	MA3120-X	ZENER DIODE		
D1601-03	MA3068(M)-X	CHIP ZENER DIODE		
TRANSISTOR				
Q1102-03	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q1106	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q1107	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q1401	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q1402-04	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q1405-08	DTC363TK-X	DIGI TRANSISTOR		
IC				
IC1101	CXA1545AS	I.C.		
OTHERS				
CN1001-02	CHA401N-25R-J	HQF CONNECTOR		
J1001	CEMN073-001	PIN JACK		
J1002	QMCC008-C01	DIN JACK		
J1003	CEMN073-001	PIN JACK		
J1004	QMCC008-C01	DIN JACK		
J1005	CEMN073-001	PIN JACK		
J1006	CEMN045-001	PIN JACK		
J1007	CEMN057-001	PIN JACK		
J1008	AX49607-024	MINI JACK		
J1009-10	AX49607-020	MINI JACK		
J1011	CEMT005-003	PUSH TERMINAL		
S1001	QSS1F42-C01	SLIDE SWITCH	INT-EXT SW	
⚠ W1018	QRD149J-221S	C R	220 Ω 1/4W J	

CRT SOCKET PW BOARD ASS'Y (PA-3001A-H1)

Please refer to page 3-17

FRONT CONTROL PW BOARD ASS'Y (PA-4001A-H1)

Please refer to page 3-17

AUDIO PW BOARD ASS'Y (PA-6002A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
⚠ R1601	QRD149J-100S	C R	10 Ω 1/4W J	
⚠ R1659	QRD149J-2R2S	C R	2.2 Ω 1/4W J	
⚠ R1661	QRD149J-2R2S	C R	2.2 Ω 1/4W J	
R1701	QRSA08J-224YL	CHIP MG R	220kΩ 1/10W J	
CAPACITOR				
C1602	QFV71HJ-104MZ	TF CAP.	0.1 µF 50V J	
C1604-05	QFLC1HK-222MZ	M CAP.	2200 pF 50V K	
C1606	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C1607	QFV71HJ-104MZ	TF CAP.	0.1 µF 50V J	
C1608-09	NCB21HK-682AY	CHIP CAP.	6800 pF 50V K	
C1610	QFV71HJ-104MZ	TF CAP.	0.1 µF 50V J	
C1619-20	QEN61CM-106Z	BP E CAP.	10 µF 16V M	
C1621	NCS21HJ-681AY	CHIP C CAP.	680 pF 50V J	
C1622	QFLC1HJ-823MZ	M CAP.	0.082 µF 50V J	
C1652	NCS21HJ-221AY	CHIP C CAP.	220 pF 50V J	
C1654	NCS21HJ-221AY	CHIP C CAP.	220 pF 50V J	
C1655	QETC1CM-476Z	E CAP.	47 µF 16V M	
C1661	QETB1VM-108	E CAP.	1000 µF 35V M	
C1662	QFV71HJ-124MZ	TF CAP.	0.12 µF 50V J	
C1664	QFV71HJ-124MZ	TF CAP.	0.12 µF 50V J	
C1665	QETC1CM-108Z	E CAP.	1000 µF 16V M	
DIODE				
D1651-52	RD39E(B3)-T5	ZENER DIODE		
D1701-02	MA152WK-X	CHIP DIODE		
TRANSISTOR				
Q1651	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q1652-53	DTC124EKA-X	DIGI.TRANSISTOR		
Q1681	DTA144TK-X	DIGI.TRANSISTOR		
Q1682-83	DTC323TK-X	DIGI.TRANSISTOR		
Q1702	DTC124EKA-X	DIGI.TRANSISTOR		
Q1704	2SC2412K(QR)-X	CHIP TRANSISTOR		
IC				
IC1601	UPC1853CT	I.C(MONO-ANA)		
IC1651	TA8216H	I.C(MONO-ANA)		
IC1681	BA15218N	I.C(MONO-ANA)		
IC1701	UPC358C	I.C(MONO-ANA)		
OTHERS				
RY1701	CESK023-001	RELAY		

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MI-COM PW BOARD ASS'Y (PA-7002A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
VARIABLE RESISTOR				
R7131	QVPE611-102HZ	V R	1kΩ B DET.OUT LEV	
RESISTOR				
R7001	QRD149J-150S	C R	15 Ω 1/4W J	
R7155	NRVA02D-1502NY	CHIP MF R	15kΩ 1/10W ±0.5%	
R7156	NRVA02D-1501NY	CHIP MF R	1.5kΩ 1/10W ±0.5%	
R7806	NRVA02D-1502NY	CHIP MF R	15kΩ 1/10W ±0.5%	
R7904	QRG019J-151S	OM R	150 Ω 1W J	
R7905	QRG029J-181	OM R	180 Ω 2W J	
R7906	QRG019J-681S	OM R	680 Ω 1W J	
CAPACITOR				
C7005	QFLC1HK-103MZ	M CAP.	0.01 µF 50V K	
C7009-12	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7014	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7053	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7101	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7104	NCB21HK-472AY	CHIP CAP.	4700 pF 50V K	
C7108	QFV71HJ-224MZ	TF CAP.	0.22 µF 50V J	
C7109-10	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7113	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7119	NCF21HZ-104AY	CHIP C CAP.	0.1 µF 50V Z	
C7125	NCT03CH-220AY	CHIP CAP.	22 pF 1600V H	
C7127	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7128	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	
C7133	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7139	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7140	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	
C7141	NCB21EK-683AY	CHIP CAP.	0.068 µF 25V K	
C7142	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7143	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7144	QEB61HM-104MZ	E CAP.	0.1 µF 50V M	
C7145	NCB21HK-332AY	CHIP CAP.	3300 pF 50V K	
C7146-47	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7153	QFV71HJ-104MZ	TF CAP.	0.1 µF 50V J	
C7154	QEN61HM-105Z	BP E CAP.	1 µF 50V M	
C7155	QEN61HM-475Z	BP E CAP.	4.7 µF 50V M	
C7156	QEN61CM-106Z	BP E CAP.	10 µF 16V M	
C7157	QEB61HM-104MZ	E CAP.	0.1 µF 50V M	
C7158	QFLC1HK-473MZ	M CAP.	0.047 µF 50V K	
C7160	QFV71HJ-104MZ	TF CAP.	0.1 µF 50V J	
C7164	QEE61CK-335BZ	TAN.CAP.	3.3 µF 16V K	
C7165	QEE61CK-106BZ	TAN.CAP.	10 µF 16V K	
C7167-68	QEN61CM-106Z	BP E CAP.	10 µF 16V M	
C7203	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7204	NCT03CH-391AY	CHIP CAP.	390 pF 1600V H	
C7206	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7207	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7209	NCT03CH-390AY	CHIP CAP.	39 pF 1600V H	
C7213-14	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7215-16	QETC0JM-107Z	E CAP.	100 µF 6.3V M	
C7218	QETC0JM-107Z	E CAP.	100 µF 6.3V M	
C7221	NCT03CH-271AY	CHIP CAP.	270 pF 1600V H	
C7222	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7223	NCT03CH-151AY	CHIP CAP.	150 pF 1600V H	
C7224	NCT03CH-271AY	CHIP CAP.	270 pF 1600V H	
C7226	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7231	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7233	QEN61HM-106Z	BP E CAP.	10 µF 50V M	
C7301-02	NCT03CH-330AY	CHIP CAP.	33 pF 1600V H	
C7303	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C7309	QEN61HM-475Z	BP E CAP.	4.7 µF 50V M	
C7310	NCT03CH-100AY	CHIP CAP.	10 pF 1600V H	
C7321	QEN61CM-336Z	BP E CAP.	33 µF 16V M	
C7324-25	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	

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⚠ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
C7602	NCB21EK-683AY	CHIP CAP.	0.068 μF 25V K	
C7607	NCB21EK-683AY	CHIP CAP.	0.068 μF 25V K	
C7701	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7702	NCT03CH-471AY	CHIP CAP.	470 pF 1600V H	
C7703	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7707	NCB21EK-683AY	CHIP CAP.	0.068 μF 25V K	
C7711	NCB21EK-683AY	CHIP CAP.	0.068 μF 25V K	
C7712	QEB61HM-104MZ	E CAP.	0.1 μF 50V M	
C7801-02	NCB21HK-332AY	CHIP CAP.	3300 pF 50V K	
C7803	NCB21HK-153AY	CHIP CAP.	0.015 μF 50V K	
C7804	QEN61HM-105Z	BP E CAP.	1 μF 50V M	
C7807	NCT03CH-470AY	CHIP CAP.	47 pF 1600V H	
C7808	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C7811	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	
C7813	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C7825-26	NCT03CH-220AY	CHIP CAP.	22 pF 1600V H	
C7827-30	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	
C7831	NCB21HK-332AY	CHIP CAP.	3300 pF 50V K	
C7907-08	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C7913	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7919	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
C7922	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	
TRANSFORMER				
T7111	CE40123-501	AFC TRANSFORMER		
T7115	CELT003-105	S.I.F.TRANSF		
T7116	CELT003-106	S.I.F.TRANSF.		
T7203	CE41360-001	DELAY LINE		
T7801	CE42470-001	OSC COIL		
COIL				
L7001	CELP026-150Z	PEAKING COIL	15 μH	
L7102	CE41131-R47Y	CHIP INDUCTOR		
L7105	CE41131-R47Y	CHIP INDUCTOR		
L7106	CELP040-R56YL	CHIP P COIL		
L7109	CE41131-2R2Y	CHIP INDUCTOR		
L7121	CE41131-150Y	CHIP INDUCTOR		
L7202	CELP026-150Z	PEAKING COIL	15 μH	
L7601-02	CELP026-4R7Z	PEAKING COIL	4.7 μH	
L7701-02	CELP026-4R7Z	PEAKING COIL	4.7 μH	
L7802-03	CELP026-2R2Z	PEAKING COIL	2.2 μH	
DIODE				
D7001	MA3330(L)-X	CHIP ZENER DIODE		
D7201	MA152WK-X	CHIP DIODE		
D7204	1SS133	SI.DIODE		
D7301-02	MA152WK-X	CHIP DIODE		
D7601	MA3062(M)-X	CHIP ZENER DIODE		
D7602-03	MA152WK-X	CHIP DIODE		
D7604-07	MA3062(M)-X	CHIP ZENER DIODE		
D7706-10	MA3062(M)-X	CHIP ZENER DIODE		
D7713-14	MA3062(M)-X	CHIP ZENER DIODE		
D7851-52	MA152WK-X	CHIP DIODE		
D7901-02	MA152WK-X	CHIP DIODE		
D7903	S1WB(A)20	SI.DIODE		
D7904-07	MA152WK-X	CHIP DIODE		
TRANSISTOR				
Q7001-02	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7101	2SC5083(L-P)-T	SI.TRANSISTOR		
Q7103	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7105	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7201-04	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7206-07	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7208	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7211	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7212-16	2SC2412K(QR)-X	CHIP TRANSISTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
TRANSISTOR				
Q7220	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7301	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7321	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7322-23	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7324-25	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7404	DTC124EKA-X	DIGI.TRANSISTOR		
Q7601	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7801	2SA1037K(QR)-X	CHIP TRANSISTOR		
Q7802-03	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7851-54	2SC2412K(QR)-X	CHIP TRANSISTOR		
Q7901	2SC1740S(QR)-T	SI.TRANSISTOR		
Q7902	2SC2412K(QR)-X	CHIP TRANSISTOR		
IC				
IC7101	LA7577N	I.C(MONO-ANA)		
IC7151	UPC1852ACT	I.C(MONO-ANA)		
IC7191	AN78L09-Y	I C		
IC7201	JCC1005	I.C(MONO-ANA)		
IC7202	M51494L	I.C(MONO-ANA)		
IC7301	LA7016	I.C(MONO-ANA)		
IC7302	MSM5256RS	I.C(DIGI-MOS)		
IC7303	TC4W66F-X	I.C(DIGI-MOS)		
IC7601	MN1876466J7D2	I C		
IC7701	MN1876466J7C3	I C		
IC7702	MN1381-Q-Y	I.C(MONO-ANA)		
IC7704	AT24C16-55BX6	I.C(EP-ROM)		
IC7801	LC7458B-04	I.C(DIGI-OTHER)		
IC7802	LA7945N	I.C(MONO-ANA)		
IC7803	MN1381-Q-Y	I.C(MONO-ANA)		
IC7901	AN7812F	I.C(MONO-ANA)		
IC7903	AN7805F	I.C(MONO-ANA)		
IC7904	AN78L09-Y	I C		
IC7905	AN7805F	I.C(MONO-ANA)		
IC7906	AN78L05-Y	I.C.		
IC7907	AN7812F	I.C(MONO-ANA)		
OTHERS				
	CEMS009-064	IC SOCKET		
	CM46946-001	SHIELD PLATE		
	CEMS009-064	IC SOCKET		
	CM46946-001	SHIELD PLATE		
	CEMS007-008	IC SOCKET		
CF7001	FTP47.25MF	CERAMIC TRAP		
CF7102	CE41505-001	CERAMIC FILTER		
CF7106	SFSH4.5MCB	CERAMIC FILTER		
CF7601	CST8.00MTW	CER.RESONATOR		
CF7701	CST8.00MTW	CER.RESONATOR		
CF7801	FCR12.0M2S	C RESONATOR		
CN7001-02	CHA401N-25P-J	HQF CONNECTOR		
K7601-04	CE42050-001Z	CORE		
K7801-04	CE42050-001Z	CORE		
K7901-02	CE42050-001Z	CORE		
K7904	CE42050-001Z	CORE		
SF7101	CE41031-202	SAW FILTER		
SF7102	CE42399-201	SAW FILTER		
W7207	CELP017-5R6	PEAKING COIL	5.6µH	
W7227	CELP017-5R6	PEAKING COIL	5.6µH	
X7301	CE42510-001	CRYSTAL		

CONVERGENCE PW BOARD ASS'Y (PA-8001A-H1)

Please refer to page 3-28

POWER PW BOARD ASS'Y (PA-9002A-H1)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R9002	QRZ0111-275U	C R	2.7MΩ	
	R9101	QRF154K-1R0	UNF R	1 Ω 15W K	
	R9104	QRG039J-103	OM R	10kΩ 3W J	
⚠	R9105	QRD121J-3R9SY	C R		
	R9106	QRD123J-122SX	C R	1.2kΩ 1/2W J	
	R9109	QRM059K-R10	MP R		
	R9201	QRG019J-223S	OM R	22kΩ 1W J	
⚠	R9203	QRD149J-101S	C R	100 Ω 1/4W J	
	R9210	QRG029J-151A	OM R	150 Ω 2W J	
	CAPACITOR				
	C9001-02	QFZ9036-224M	M F CAP.	0.22μFAC125V M	
	C9003-04	QCZ9033-222A	C CAP.	0.022μFAC125V M	
	C9005	QFZ9036-104M	M.F.CAP.	0.1μFAC125V M	
⚠	C9101	QFZ9036-104M	M.F.CAP.	0.1μFAC125V M	
⚠	C9102	QFZ9036-104M	M.F.CAP.	0.1μFAC125V M	
⚠	C9103	QCZ9033-222A	C CAP.	0.022μFAC125V M	
⚠	C9104	QCZ9033-222A	C CAP.	0.022μFAC125V M	
	C9105	QFH52EK-103M	MM CAP.	0.01μF 250V K	
⚠	C9106	QEZ0110-108R	E CAP.	1000μF	
	C9109	QCZ0131-332A	C CAP.	3300pF	
	C9110	QETC1VM-476Z	E CAP.	47μF 35V M	
⚠	C9112	QCZ9033-472A	C CAP.	0.047μFAC125V M	
	C9113	QCZ0131-332A	C CAP.	3300pF	
⚠	C9202	QETB1VM-108	E CAP.	1000μF 35V M	
⚠	C9203	QETB1VM-338	E CAP.	3300μF 35V M	
⚠	C9205	QEHB1EM-478M	E CAP.	4700μF 25V M	
⚠	C9206	QETC1EM-477Z	E CAP.	470μF 25V M	
⚠	C9208	QEHB1HM-477M	E CAP.	470μF 50V M	
⚠	C9209	QETC1HM-107Z	E CAP.	100μF 50V M	
⚠	C9211	QEHB1HM-477M	E CAP.	470μF 50V M	
⚠	C9212	QETC1HM-107Z	E CAP.	100μF 50V M	
⚠	C9214	QEH72CM-337M	E CAP.	330μF 160V M	
⚠	C9215	QETB2CM-227	E CAP.	220μF 160V M	
⚠	C9217	QCZ9033-472A	C CAP.	4700pFAC125V M	
⚠	C9218	QCZ9033-222A	C CAP.	2200pFAC125V M	
	C9231	QEN61VM-475Z	BP E CAP.	4.7μF 35V M	
	C9914	QETC1VM-476Z	E CAP.	47μF 35V M	
	TRANSFORMER				
	T9101	CE41993-001	POWER TRANSF.		
	T9102	CETS018-001J2	SW TRANSF		
	COIL				
	L9201-05	CELC021-470	CHOKE COIL	47μH	
	DIODE				
	D9001	1SS133-T2	SI.DIODE		
	D9101	RBV-406M	BRIDGE DIODE		
	D9102-03	EU2A-LFF6	SI.DIODE		
⚠	D9202	D4L20U	SI.DIODE		
⚠	D9203	D4L20U	SI.DIODE		
⚠	D9204	D4L20U	SI.DIODE		
⚠	D9205	D5L60	SI.DIODE		
	D9206	RL2Z-LFC4	SI DIODE		
	D9210-15	1SS133-T2	SI.DIODE		
	TRANSISTOR				
	Q9201	2SA1309A(QR)-T	SI.TRANSISTOR		
	Q9202	2SC2229(Y)-T	SI.TRANSISTOR		
	Q9203	2SC3311A(QR)-T	SI.TRANSISTOR		
	IC				
	IC9101	STK711-550	I.C(HYBRID)		
	IC9102	TLP621(B)	I.C(PH.COUPLER)		
⚠	IC9201	SE130N	I.C(H)		

NV-55BH6(US)

2D Y/C SEP.PW BOARD ASS'Y (PA-0Y002A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
C1114	NCB21HK-473AY	CHIP CAP.	0.047 μF 50V K	
C1115	NCT03CH-100AY	CHIP CAP.	10 pF 1600V H	
C1116	NCB21HK-473AY	CHIP CAP.	0.047 μF 50V K	
C1117	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1120	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1121	QEKC1CM-476MZ	E CAP.	47 μF 16V M	
C1122	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1123	QEKC1CM-476MZ	E CAP.	47 μF 16V M	
C1124	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1126	NCF21HZ-103AY	CHIP C CAP.	0.1 μF 50V Z	
C1129-30	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1201	QEKC0JM-476GMZ	E CAP.	47 μF 6.3V M	
C1202-04	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1205	QEKC0JM-476GMZ	E CAP.	47 μF 6.3V M	
C1206-08	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1209	QEPC1CM-106MZ	BP E CAP.	10 μF 16V M	
C1210	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1211	NCB21HK-472AY	CHIP CAP.	4700 pF 50V K	
C1212	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1213	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1214	NCT03CH-181AY	CHIP CAP.	180 pF 1600V H	
C1215	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1216	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1217	QEKC0JM-476GMZ	E CAP.	47 μF 6.3V M	
C1218-19	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1220	NCF21HZ-103AY	CHIP C CAP.	0.01 μF 50V Z	
C1221	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C1222	NCF21HZ-104AY	CHIP C CAPACITOR	0.1 μF 50V Z	
C1223	NCF21HZ-103AY	CHIP C CAP.	0.01 μF 50V Z	
C1224-27	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1228	NCT03CH-180AY	CHIP CAP.	18 pF 1600V H	
C1229-30	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1231	QEKC1CM-476MZ	E CAP.	47 μF 16V M	
C1232	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1233	QEPC1CM-106MZ	BP E CAP.	10 μF 16V M	
C1234	NCF21HZ-103AY	CHIP C CAP.	0.01 μF 50V Z	
C1235	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1236	QEKC1CM-476MZ	E CAP.	47 μF 16V M	
C1237	QEKC0JM-476GMZ	E CAP.	47 μF 6.3V M	
C1238-42	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1243	QEP61CM-336MZ	BP E CAP.	33 μF 16V M	
C1244	NCT03CH-120AY	CHIP CAP.	12 pF 1600V H	
C1245	NCT03CH-270AY	CHIP CAP.	27 pF 1600V H	
C1246	NCT03CH-120AY	CHIP CAP.	12 pF 1600V H	
C1247	NCT03CH-270AY	CHIP CAP.	27 pF 1600V H	
C1248-51	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
C1253-59	NCF21HZ-104AY	CHIP C CAP.	0.1 μF 50V Z	
CF1101	EFC-S3R58MS4	CERAMIC FILTER		
COIL				
L1201-03	CELP026-100Z	PEAKING COIL		
L1204-05	CELP026-270Z	PEAKING COIL		
TRANSISTOR				
Q1101-02	2SC2712(YG)-X	CHIP TRANSISTOR		
Q1104	2SC2712(YG)-X	CHIP TRANSISTOR		
Q1201-03	2SC2712(YG)-X	CHIP TRANSISTOR		
Q1204	2SA1162(YG)-X	CHIP TRANSISTOR		
Q1205	2SC2712(YG)-X	CHIP TRANSISTOR		
Q1206-08	2SA1162(YG)-X	CHIP TRANSISTOR		
Q1209-11	2SC2712(YG)-X	CHIP TRANSISTOR		
IC				
IC1102	AN7809F	I.C.		
IC1103	AN7805F	I.C(MONO-ANA)		
IC1201	TA8858N	I C		

⚠ Symbol No.	Part No.	Part Name	Description	Local
I C				
IC1202	TC9089AN	I C		
O T H E R S				
EF1201-03	CE42482-470Y	EMI FILTER		

PIP1 MODULE PW BOARD ASS'Y (PA-0P001A-H1)

⚠ Symbol No.	Part No.	Part Name	Description	Local
	PA-0P001A-H1	PIP1 MODULE		

LED PW BOARD ASS'Y (PA-4003A-H1)

Please refer to page 3-19

REMO.CON PW BOARD ASS'Y (PA-4004A-H1)

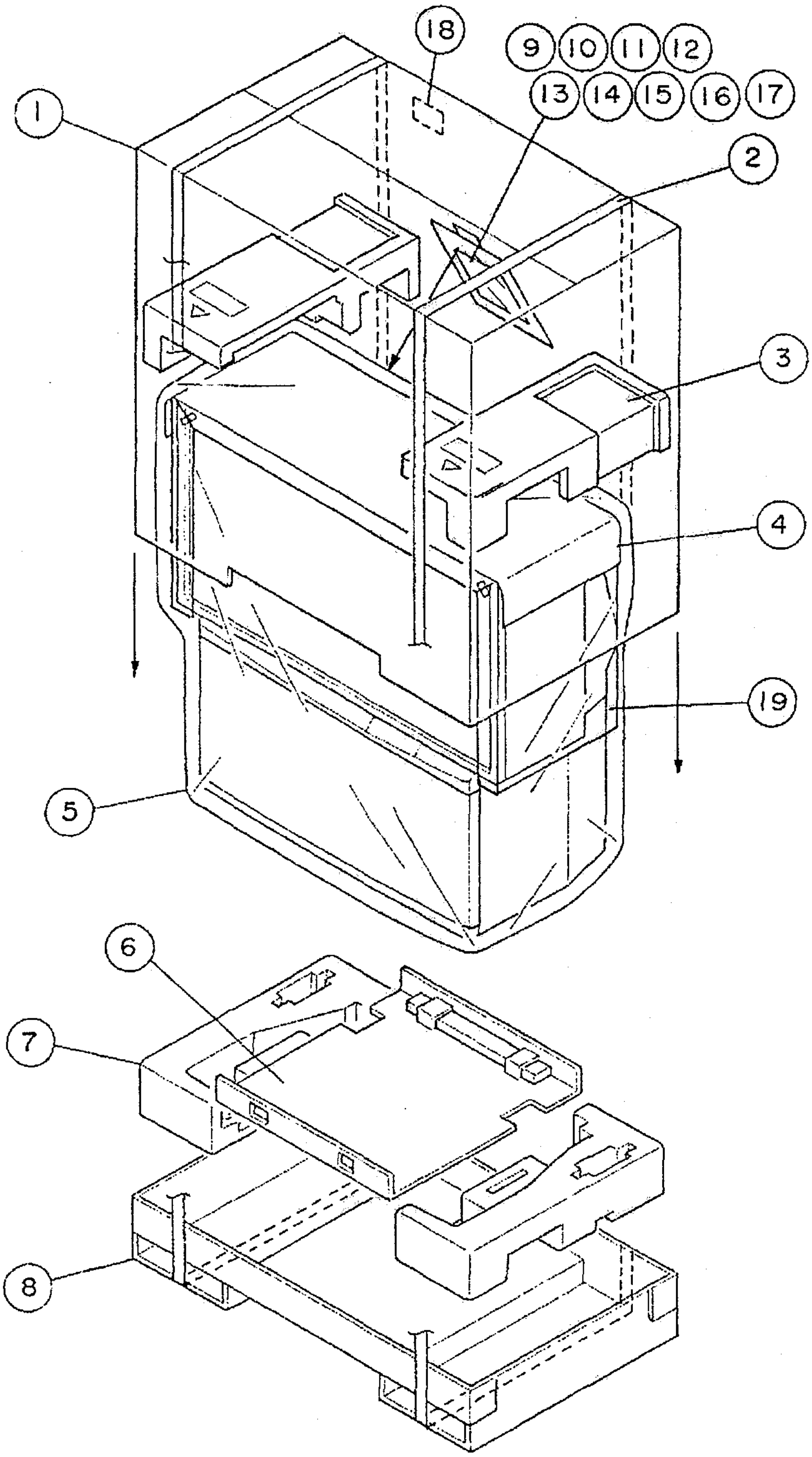
Please refer to page 3-19

DEF. PW BOARD ASS'Y (PA-2001A-H1)

Please refer to page 3-20

PACKING

NV-55BX6(US&CA) /NV-55BH6(US)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NV-55BX6(US&CA)/NV-55BH6(US)

PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	[NV-55BX6(US&CA)]				
	1	CP11267-002-A	PACKING CASE		*
	2	CP30371-00F	BAND	×2	
	3	CP30808-00A-A	TOP CUSHION		*
	4	AAP2003-001-A	TOP COVER		*
	5	CP30056-006-A	POLY BAG		*
	6	CP30806-00A-A	BOTTOM SHEET ASSY		*
	7	CP30809-00A-A	BOTTOM CUSHION		*
	8	CP30807-001-A	BOTTOM CASE		*
	9	CM30751-010	POLY BAG		*
	10	BT-51006-2-A	REGISTRATION C	(US)	*
⚠	11	RM-C727-1A	REMOCON		*
⚠	12	NV-55BX6-IBA-A	INST BOOK		*
⚠	13	NV-55BX6C-IBA-A	INST BOOK	(CA)	*
	14	BT-52002-1A	WARRANTY CARD	(CA)	*
	15	AAM4014-002-A	CLEANING INST		*
	16	AAM4014-001-A	CLEANING INST	(CA)	*
	17	CEAC012-150J1	3.5 PLUG CABLE		*
	18	**AAM3011-001-A**	**CORNER LABEL**	**(US)**	*
	18	**AAM3011-002-A**	**CORNER LABEL**	**(CA)**	*
	19	AAP2002-001-A	TOP SHEET		*
	[NV-55BH6(US)]				
	1	CP11267-002-A	PACKING CASE		*
	2	CP30371-00F	BAND	×2	
	3	CP30808-00A-A	TOP CUSHION		*
	4	AAP2003-001-A	TOP COVER		*
	5	CP30056-006-A	POLY BAG		*
	6	CP30806-00A-A	BOTTOM SHEET ASSY		*
	7	CP30809-00A-A	BOTTOM CUSHION		*
	8	CP30807-001-A	BOTTOM CASE		*
	9	CM30751-010	POLY BAG		*
	10	BT-51006-2-A	REGISTRATION C		*
⚠	11	RM-C726-1A	REMOCON		
⚠	12	NV-55H6U-IBA-A	INST BOOK		
	15	AAM4014-002-A	CLEANING INST		*
	17	CEAC012-150J1	3.5 PLUG CABLE		*
	18	AAM3011-001-A	CORNER LABEL		*
	19	AAP2002-001-A	TOP SHEET		*

REMOTE CONTROL UNIT PARTS LIST

⚠	Symbol No.	Part No.	Part Name	Description	Local
	■ RM-C727-1A [NV-55BX6(US&CA)]				
		103RRC-049-01AR	BATTERY COVER		
	■ RM-C726-1A [NV-55BH6(US)]				
		103RRC-049-01AR	BATTERY COVER		